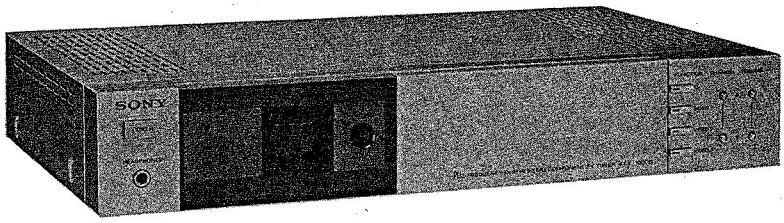
VTX-1000R
RM-705

SERVICE MANUAL

US and Canadian Model



The adjustment procedures are not contained in this manual.
When performing the adjustments, refer to the separate-volume "ADJUSTMENT MANUAL"

September, 1981

SPECIFICATIONS

Television system	American or Canadian TV standards
Channel coverage	VHF channels 2–13 UHF channels 14–83 CATV mid-band channels A–I super-band channels J–W
Antenna	75-ohm antenna terminals for VHF ANT, CONVERTER and AUX 300-ohm antenna terminals for UHF
Inputs	VIDEO INPUT 1, 2, and 3 (phono jack) 1V p-p, NTSC, 75 ohms, unbalanced, sync negative AUDIO INPUT 1, 2 and 3 (2 phono jacks) –5 dBs (436 mV rms), 47 kilohms CONTROL IN (minijack) 5V p-p MPX IN (2 phono jacks) –5 dBs (436 mV rms), 47 kilohms
Outputs	TV, MONITOR 1 and 2 VIDEO OUTPUT (phono jack) 1V p-p, NTSC, 75 ohms, unbalanced, sync negative TV, MONITOR 1 and 2 AUDIO OUTPUT (2 phono jacks) –5 dBs, (436 mV rms), 5 kilohms MONITOR 1 and 2 CONTROL OUTPUT (mini jack) 5V p-p MULTI OUTPUT (8-pin DIN) Same as the above MONITOR 1 and 2 VIDEO OUTPUT, AUDIO OUTPUT and CONTROL OUTPUT CONTROL OUT (mini jack) 5V p-p MPX OUT (phono jack) 70 mV rms ±3 dB, load impedance 50 kilohms (main channel 400 Hz, 100% modulation) 50 Hz–55 kHz, within $^{+0}_{-2}$ dB Positive polarity HEADPHONES (stereo binaural jack) Accepts low and high impedance stereo headphones
Power requirements	120V ac, 60Hz
Power consumption	20W (max.) 18W (average) 4.5 W (in standby condition)
AC outlet	Switched: max. 200W Unswitched: max. 300W
Dimensions	Approx. 430 × 77 × 277 mm (w/h/d) (17 × 3 1/8 × 11 inches) incl. projecting parts and controls
Weight	Approx. 5 kg (11 lb)
Accessories supplied	Remote Commander RM-705 Antenna connector (300–75 ohm matching transformer is built-in) 75-ohm coaxial cable with F-type connector (1.5 m) Connecting Cord RK-74A (2 phono plugs to 2 phono plugs, 1.5 m) Video Cable VMC-1S (phono plug to phono plug, 1.2 m) 2 pcs. Video Cable VK-2D (8-pin DIN plug to 8-pin DIN plug, 2 m) Instruction Manual

MICROFILM

COMPONENT TV TUNER

SONY®

CTV

ATTENTION !

POUR ÉLIMINER TOUT RISQUE D'ÉLECTROCUTION ET DE DESTRUCTION DES CIRCUITS ÉLECTRONIQUES, LORS DU DÉPANNAGE DE L'APPAREIL, CAPOT ARRIÈRE ÔTÉ, S'ASSURER QUE CELUI-CI EST BRANCHÉ SUR UN TRANSFORMATEUR D'ISOLATION CORRECTEMENT DIMENSIONNÉ.

WARNING!!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD BECAUSE OF LIVE CHASSIS.
THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

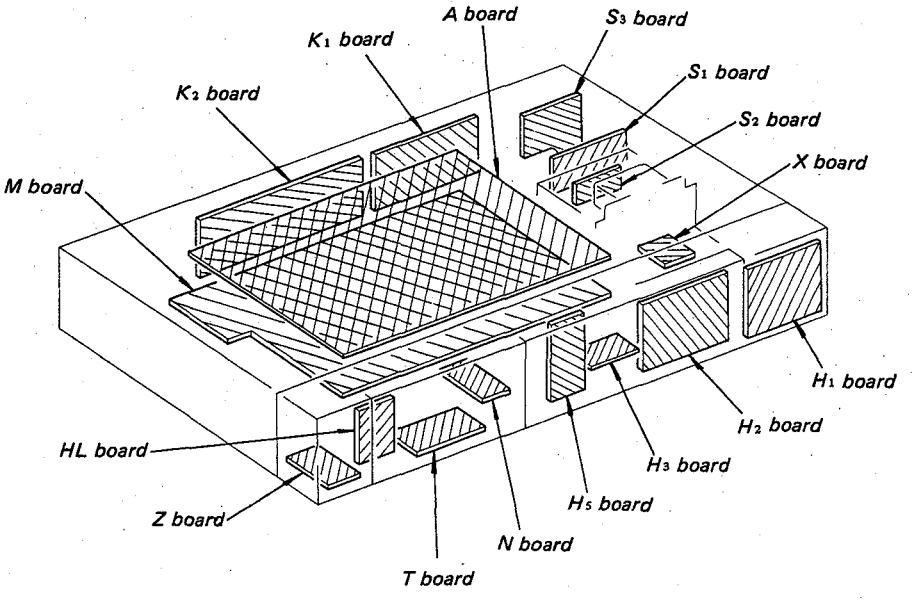
ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UN TRAMÉ ET UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES, LES VUES EXPLOSÉES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DES SUPPLÉMENTS PUBLIÉS PAR SONY. LES RÉGLAGES DU CIRCUIT QUI SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT SONT IDENTIFIÉS DANS CE MANUEL. SUIVRE LES PROCÉDURES QUAND LES COMPOSANTS CRITIQUES SONT REMPLACÉS OU LE FONCTIONNEMENT IMPROPRE EST SUSPECTÉ.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

CIRCUIT BOARDS LOCATION



SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
5. Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
6. Check the line cord for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
7. Check the condition of the monopole antenna (if any).
   Make sure the end is not broken off, and has the plastic cap on it. Point out the danger of impalement on a broken antenna to the customer, and recommend the antenna's replacement.
8. Check the B+ and HV to see they are at the values specified. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
9. Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

HOW TO FIND A GOOD EARTH GROUND

A cold-water pipe is guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth-ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms. If a cold-water pipe is not accessible, connect a 60–100 watts trouble light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side of the line, the lamp should light at normal brilliance if the screw is at ground potential. (See Fig. B)

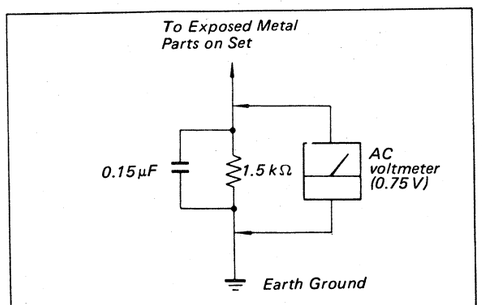


Fig. A. Using an AC voltmeter to check AC leakage.

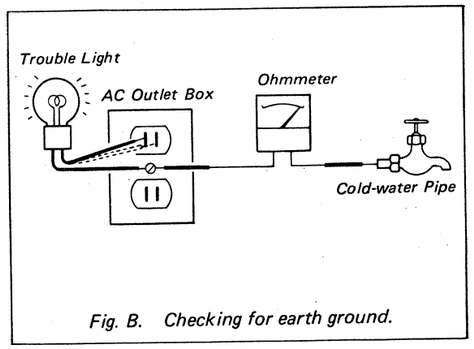
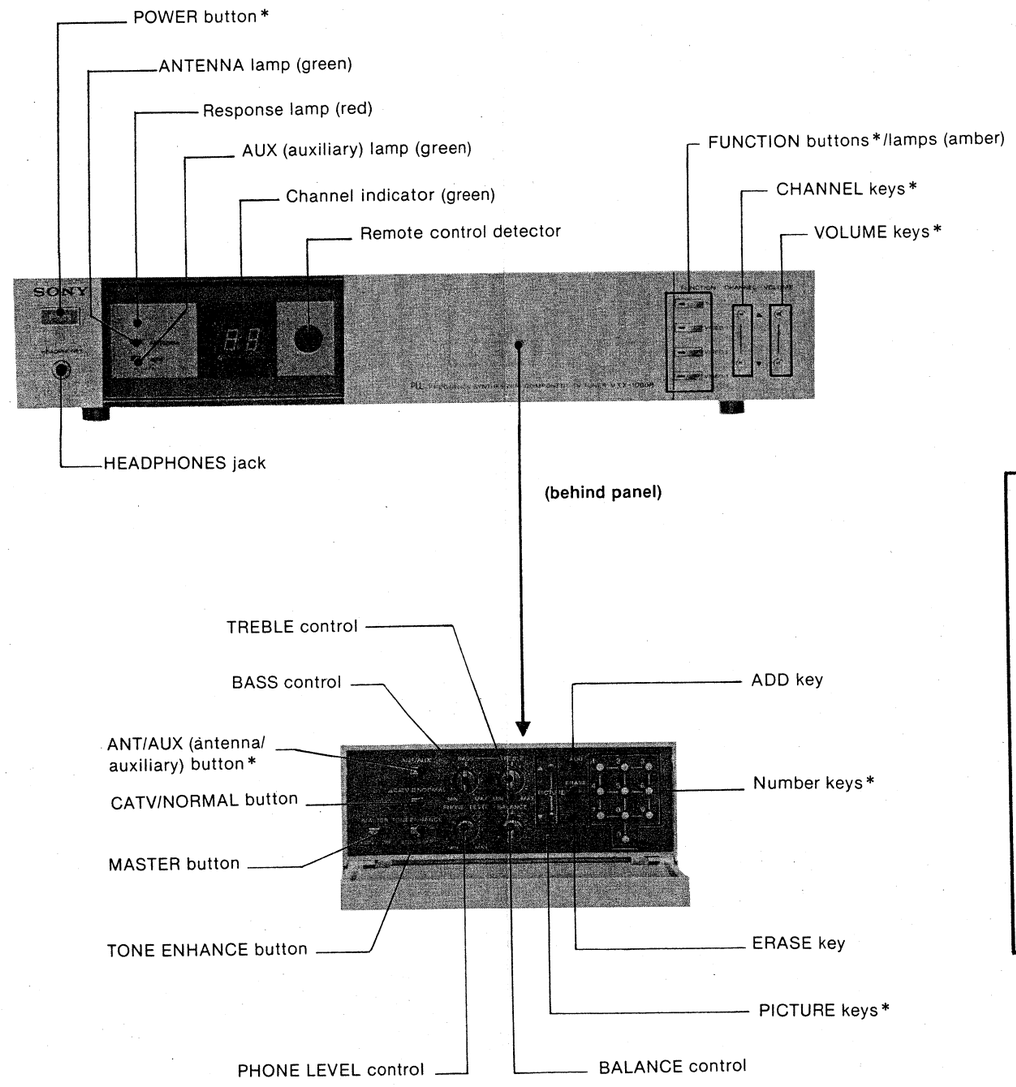


Fig. B. Checking for earth ground.

SECTION 1
OUTLINE

1-1. LOCATION OF CONTROLS

For the operation of these controls, see the following pages.



*These functions are also provided on the supplied RM-705 Remote Commander. See page **44.**

SECTION 1
OUTLINE

1-1. LOCATION OF CONTROLS

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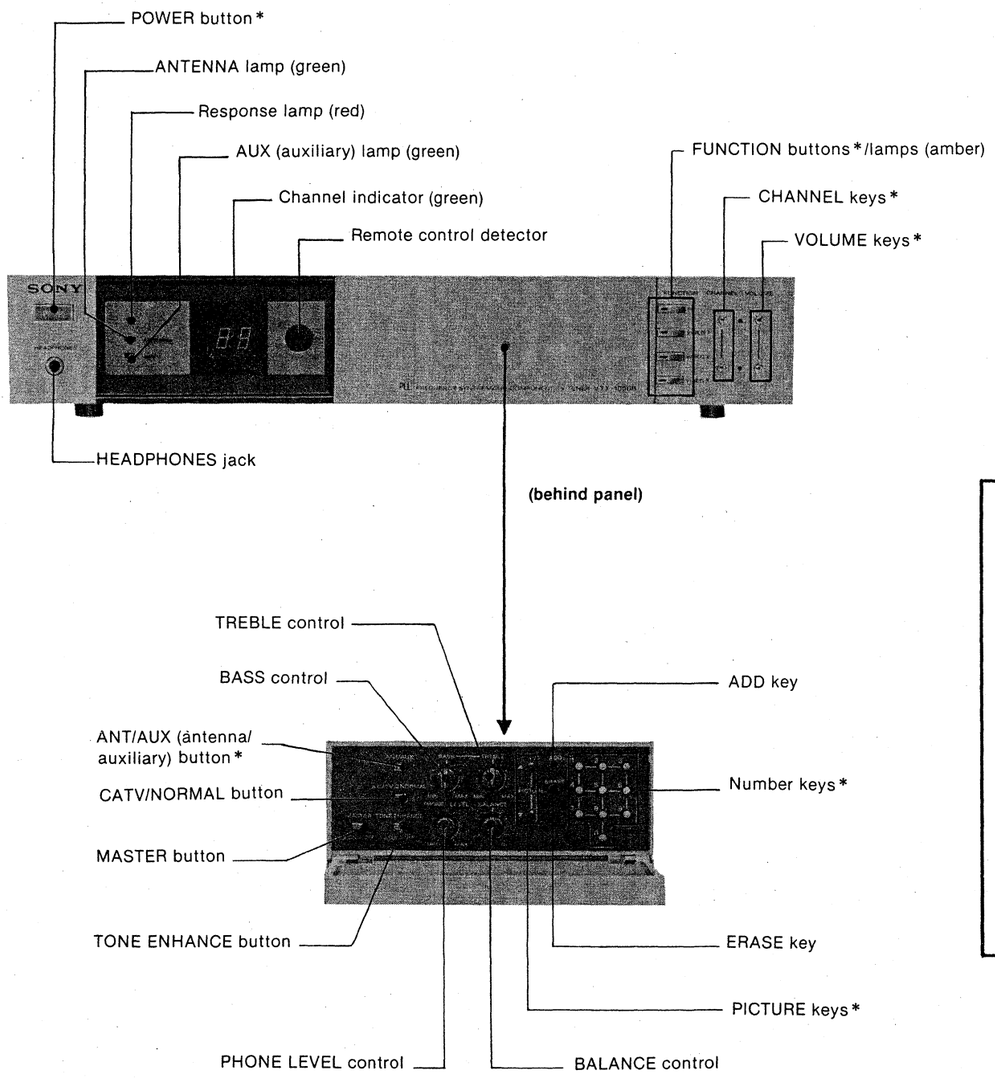
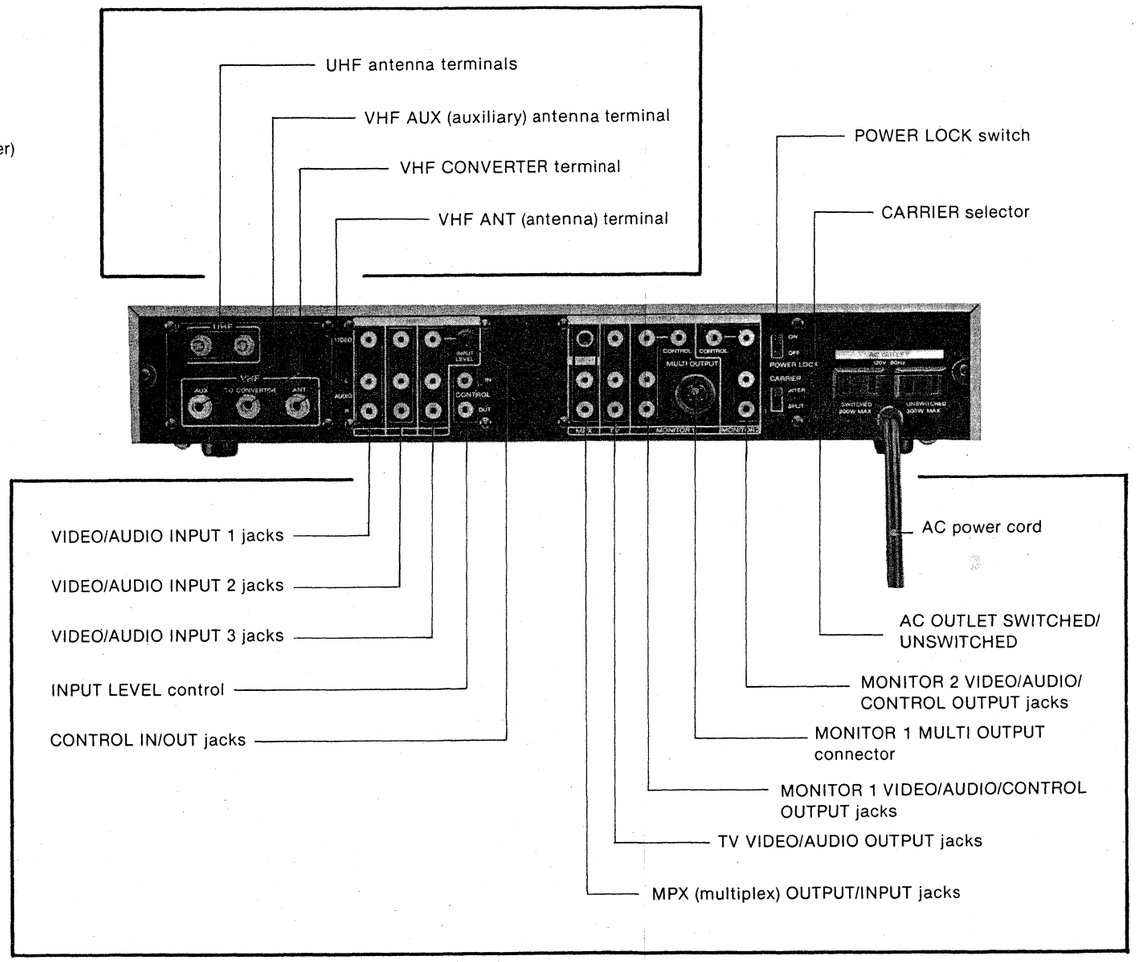
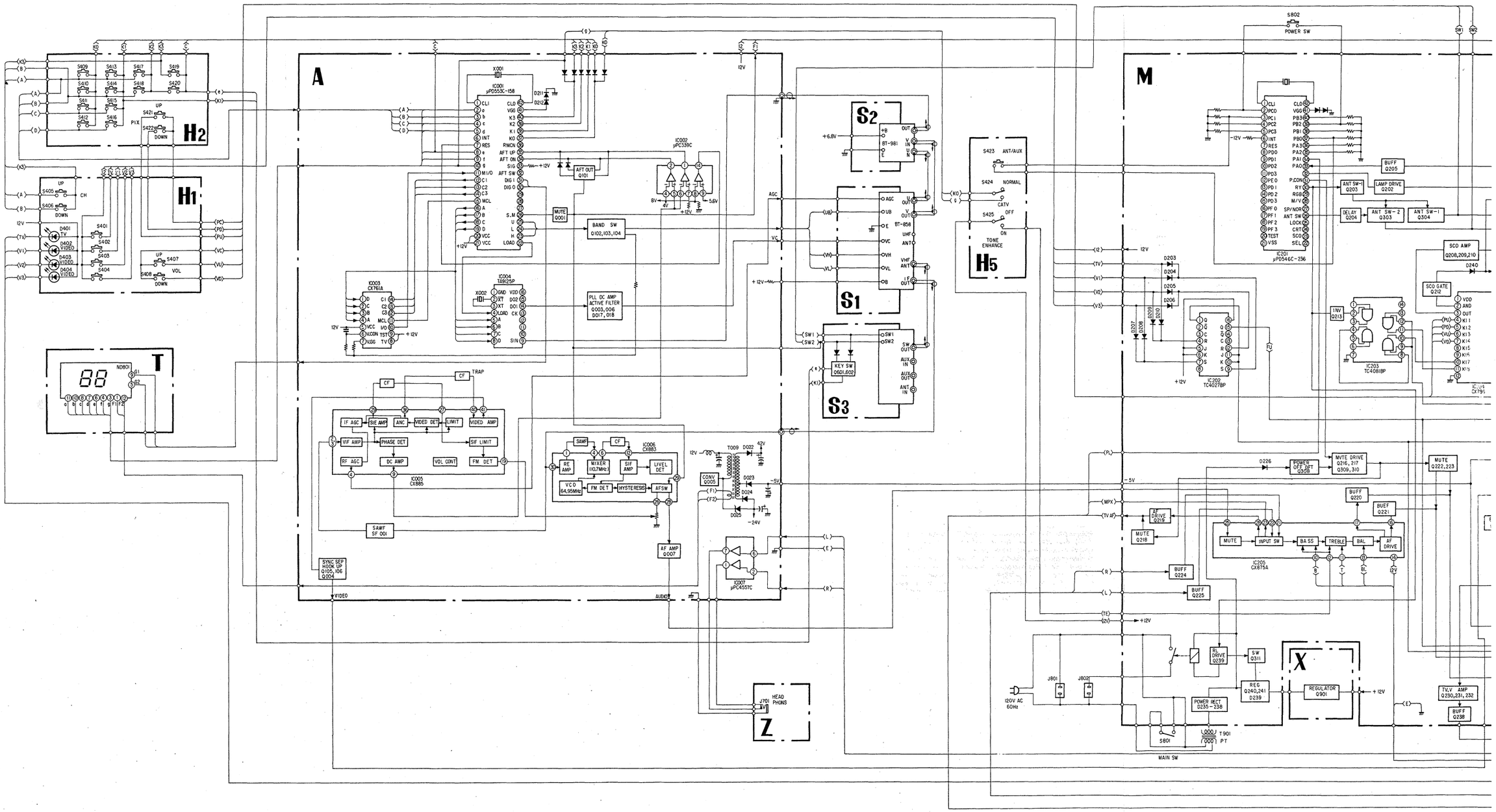


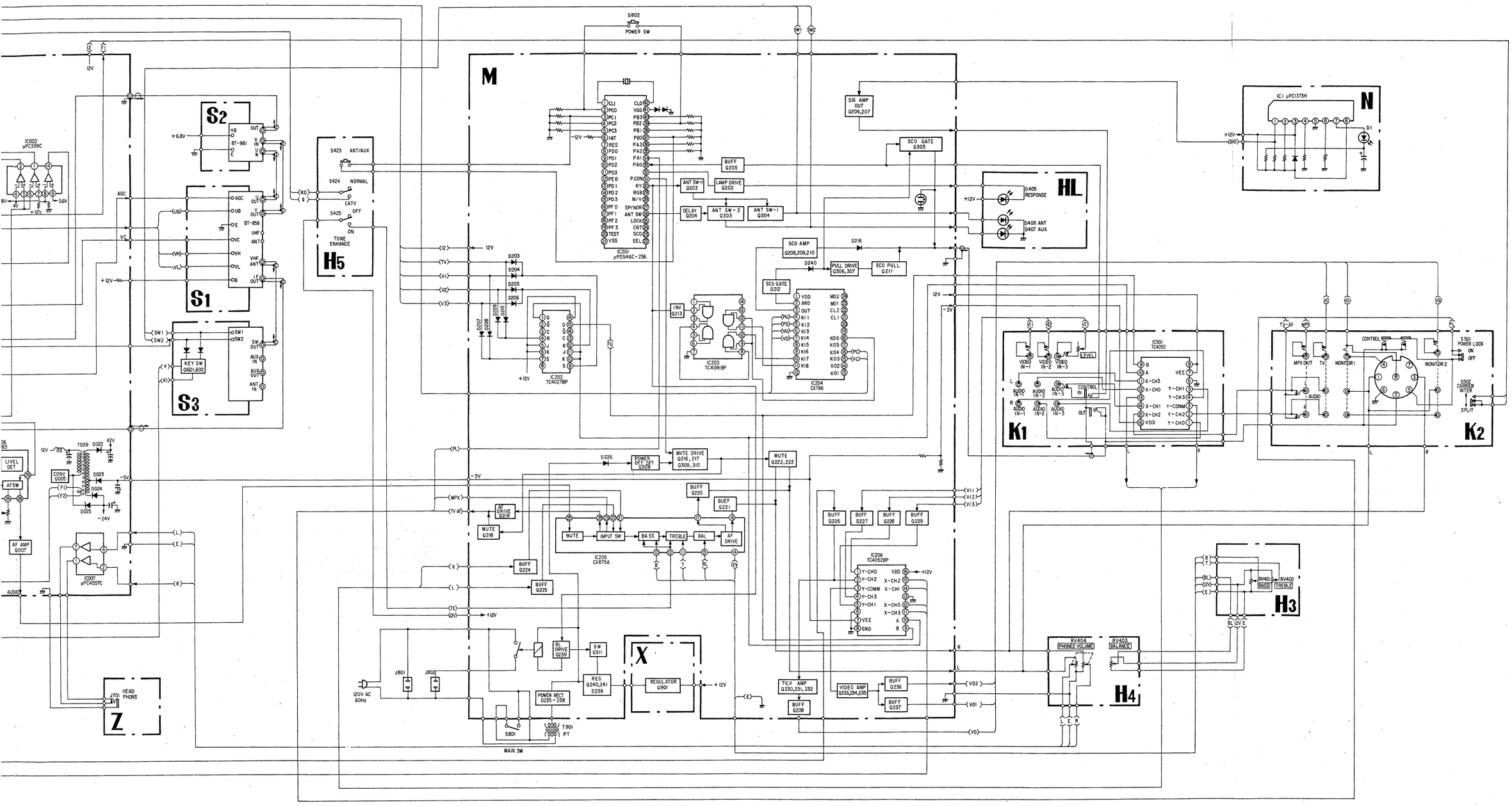
*These functions are also provided on the supplied RM-705 Remote Commander. See page **44.**

Rear panel connectors and controls



1-2. BLOCK DIAGRAM




M
S802
POWER SW
SW1
SW2
IC201 μPD546C-236
SIG AMP OUT Q206,207
SCO GATE Q305
BUFF Q205
ANT SW-1 Q203
LAMP DRIVE Q202
DELAY Q204
ANT SW-2 Q303
ANT SW-1 Q304
SCO AMP Q208,209,210
D216
D240
PULL DRIVE Q306,307
SCO PULL Q211
SCO GATE Q212
INV Q213
IC203 TC4081BP
IC204 CX786
IC207 TC4027BP
D203
D204
D205
D206
D207
D208
D209
D210
+12V
-12V
-2V
I2V
N
IC1 μPC1373H
D1
HL
D405 RESPONSE
D406 ANT
D407 AUX
K1
IC501 TC4052
VIDEO IN-1
VIDEO IN-2
VIDEO IN-3
LEVEL
AUDIO IN-1
AUDIO IN-2
AUDIO IN-3
CONTROL IN
K2
TV-AF
MPX
CONTROL
MPX OUT
TV
MONITOR1
MONITOR 2
S501 POWER LOCK ON OFF
S502 CARRIER ENTER SPLIT
AUDIO
S1
S2
S3
BT-858
BT-981
KEY SW Q601,602
S423 ANT/AUX
S424 NORMAL CATV
S425 OFF ON
TONE ENHANCE
H5
H3
RV402 TREBLE
RV403 BASS
RV403 BALANCE
RV404 PHONES VOLUME
H4
IC206 TC4052BP
IC205 CX875A
MUTE Q218
AF DRIVE Q219
BUFF Q220
BUEF Q221
MUTE Q222,223
POWER OFF DET Q308
MUTE DRIVE Q216, 217 Q309, 310
D226
BUFF Q224
BUFF Q225
BUFF Q226
BUFF Q227
BUFF Q228
BUFF Q229
BUFF Q236
BUFF Q237
BUFF Q238
TV,V AMP Q230,231,232
VIDEO AMP Q233,234,235
RL DRIVE Q239
SW Q311
REG Q240,241 Q239
REGULATOR Q901
POWER RECT D235 – 238
X
Z
J701 HEAD PHONS
J801
J802
120V AC 60Hz
S801
MAIN SW
T901
PT
LIVEL DET
AFSW
AF AMP Q007
IC007 μPC4557C
CONV Q005
T009
D022
D023
D024
D025
42V
-5V
-24V
IC002 μPC339C
8V
5.6V
4V
+6.8V
AGC
VC
VH
VL
UB
VHF ANT
UHF ANT
IF OUT
AUX IN
ANT IN
SW OUT
AUDIO
TV-AF
MPX
TV
MONITOR1
MONITOR 2
CONTROL
SPLIT
BL
E
R
L

USING THE VTX-1000R AS A TV TUNER

NORMAL TV OPERATION (PANEL OPERATION)

1

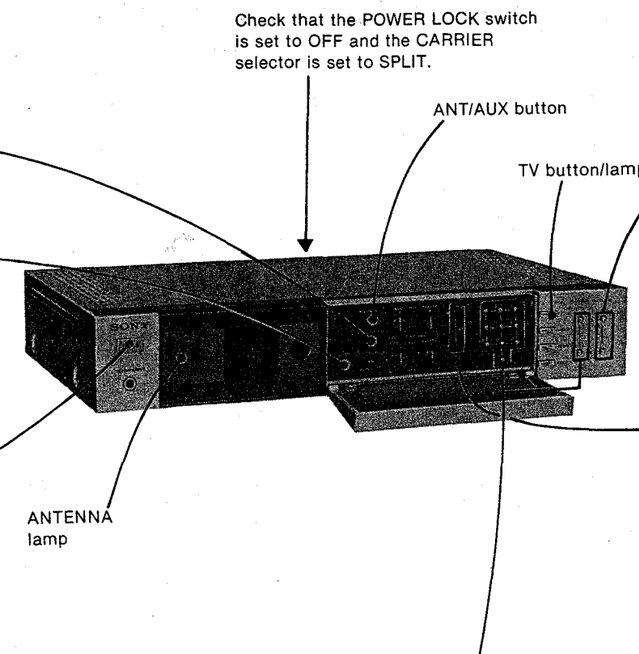
Set the CATV/NORAML button to NORMAL (released position).

2

Press the MASTER button.
Keep this button pushed in to be able to operate the set with the Remote Commander.

3

Press the POWER button.
The picture will appear on the monitor. To switch off, press the button again.
Note: If the picture does not appear, check that both the ANTENNA and TV lamps light. If not, press the ANT/AUX button and/or TV button.


Check that the POWER LOCK switch is set to OFF and the CARRIER selector is set to SPLIT.
ANT/AUX button
TV button/lamp
ANTENNA lamp

When the TV tuner is used with a Sony KX-series Component TV, proceed to steps **5** and **6**.

5

To increase the sound volume, keep the VOLUME ▲ key depressed.
To decrease, keep the VOLUME ▼ key depressed.

6

Adjust the PICTURE keys according to the room lighting condition. To increase the picture contrast, keep the PICTURE ▲ key depressed. To decrease, keep the PICTURE ▼ key depressed.

Operating notes

	When turned off with POWER button on the TV or Commander and turned on again.	When turned off with MASTER button and turned on again.
FUNCTION setting	memorized	TV
ANT/AUX setting		ANT
channel		memorized
sound volume		
picture contrast		

POWER LOCK switch
Normally set to OFF.
If the TV tuner is to be switched on or off by a timer, set this switch to ON and keep the MASTER button pushed in.
When power is supplied to the TV tuner with the POWER LOCK switch and MASTER button set to ON, the tuner will turn on automatically.

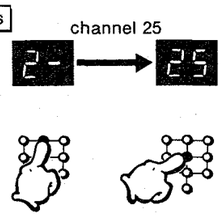
CARRIER selector
Normally set to SPLIT. The split carrier SIF circuit produces high fidelity TV sounds free from buzz noise caused by interference from video signals.
When receiving UHF signals which have been transmitted through several relay stations, setting to INTER may reduce noise.
When the ANT/AUX button is set to AUX to receive pay cable TV signals or TV game signals from the AUX terminal, the inter carrier will be selected irrespective of the CARRIER selector setting to reduce the hum which might be caused by a channel coverter or other equipment.

The PICTURE and VOLUME keys do not function when the TV tuner is used with a video monitor or video projection system not equipped with a control input connector.

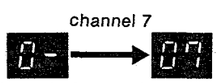
4 **Select the desired channel either by —pressing the number keys:**

Examples

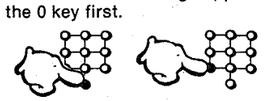
channel 25



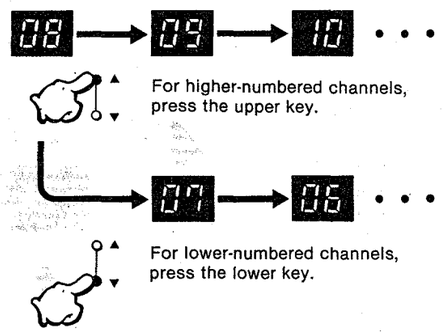
channel 7



For channels 2 through 9, press the 0 key first.



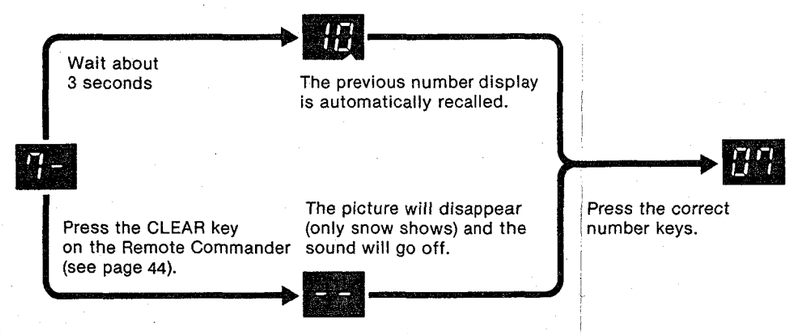
—or by scanning higher or lower for the channel among the pre-memorized channels with the CHANNEL keys:



This TV tuner is preset at the factory to receive VHF channels 2 through 13 with the CHANNEL keys. To add UHF or CATV channels or to erase inactive channles, see page 12.

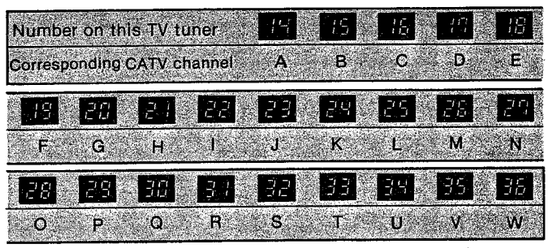
Note: If you select an incorrect tens-digit, or forget to first select 0 for channels 2 through 9 .....

Example When you wish to select channel 7.


1-
10
Wait about 3 seconds
The previous number display is automatically recalled.
Press the CLEAR key on the Remote Commander (see page 44).
--
The picture will disappear (only snow shows) and the sound will go off.
07
Press the correct number keys.

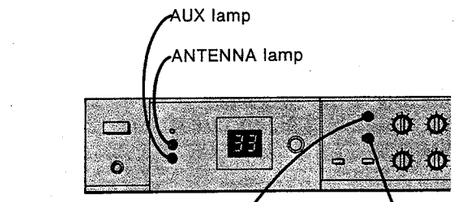
CABLE TV OPERATION (PANEL OPERATION)

In CATV (cable television) systems, programs are brought into the home on the mid-band channels A–I and the super-band channels J–W.
This TV tuner receives CATV channels, A through W, with the NORMAL/CATV selector set to CATV.
Channel A can be tuned in by selecting number 14 on this TV tuner, channel B by selecting number 15, and so on, as follows:


Number on this TV tuner
14 15 16 17 18
Corresponding CATV channel
A B C D E
19 20 21 22 23 24 25 26 27
F G H I J K L M N
28 29 30 31 32 33 34 35 36
O P Q R S T U V W

Most CATV systems use letters to designate channels but some use numbers. To tune in a numbered channel, select the same number on the TV tuner.
Consult your local cable TV company or your nearest Sony dealer to find out which of these channels are receivable and which type of cable system is used in your area. (Most of pay cable TV systems use scrambled or encoded signals and may require special converters.)

CATV programs are tuned in the same way as normal TV programs except for the CATV/NORMAL button and/or the ANT/AUX button setting.



ANT/AUX button

ANT (The ANTENNA lamp lights.)
Normal TV/CATV signals from the ANT terminal

AUX (The AUX lamp lights.)
Pay cable TV signals from the AUX terminals

CATV/NORMAL button

NORMAL (released position)
2–13, 14–83

CATV (depressed position)
2–13, A–W

❶ Press the CATV/NORMAL button to set to CATV.
❷ Press the MASTER button.
❸ Press the POWER button. Check that the TV button is selected.
❹ Press the ANT/AUX button, if required, to select VHF antenna inputs, ANT or AUX, according to the program to be viewed.
❺ Select the desired channel either by pressing the number keys or by scanning higher or lower for the channel among the prememorized channel with the CHANNEL keys. (See page 9.)
● To tune in the pay cable TV signals, select the output channel number of the channel converter.
● It may take a little longer to tune in the desired CATV channel than a normal TV channel.

CHANNEL PRESETTING — How to preset the channels to be scanned with the CHANNEL keys.

Your TV tuner has been set at the factory to receive VHF channels 2 through 13 in sequence when you press the CHANNEL keys. You can add UHF or CATV channels and erase inactive VHF channels so that only the channels available in your area will appear in the sequence.

To add UHF or CATV channels

1

Set the CATV/NORMAL button to NORMAL (released position) for UHF and to CATV (depressed position) for CATV channels.
(Either position will do for VHF.)

2

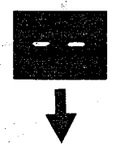
Press the ANT/AUX button, if required, to select VHF antenna input; ANT or AUX.

Check that the TV button is selected.

3

Select the channel number to be added with the number keys.

4 **Press the ADD key.**



Number of channel added

This channel has now been added.

REPEAT THE ABOVE FOR ALL THE CHANNELS TO BE ADDED.

The channels will be entered in numerical sequence regardless of the adding sequence.

If you have any problem on CATV channel presetting, consult the CATV company in your area.

To erase inactive channels

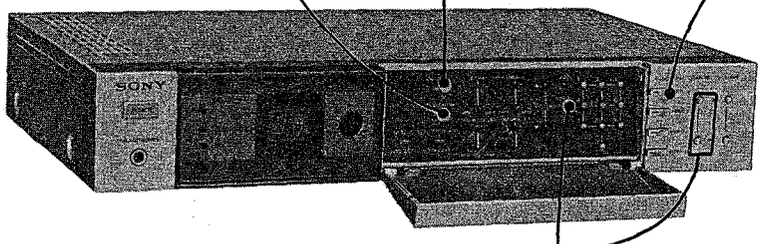
1

Set the CATV/NORMAL button to NORMAL (released position) for UHF and to CATV (depressed position) for CATV channels.
(Either position will do for VHF.)

2

Press the ANT/AUX button, if required, to select VHF antenna input; ANT or AUX.

Check that the TV button is selected.



3

Select the channel to be erased with the CHANNEL keys.

4

Press the ERASE key.

Number of channel erased

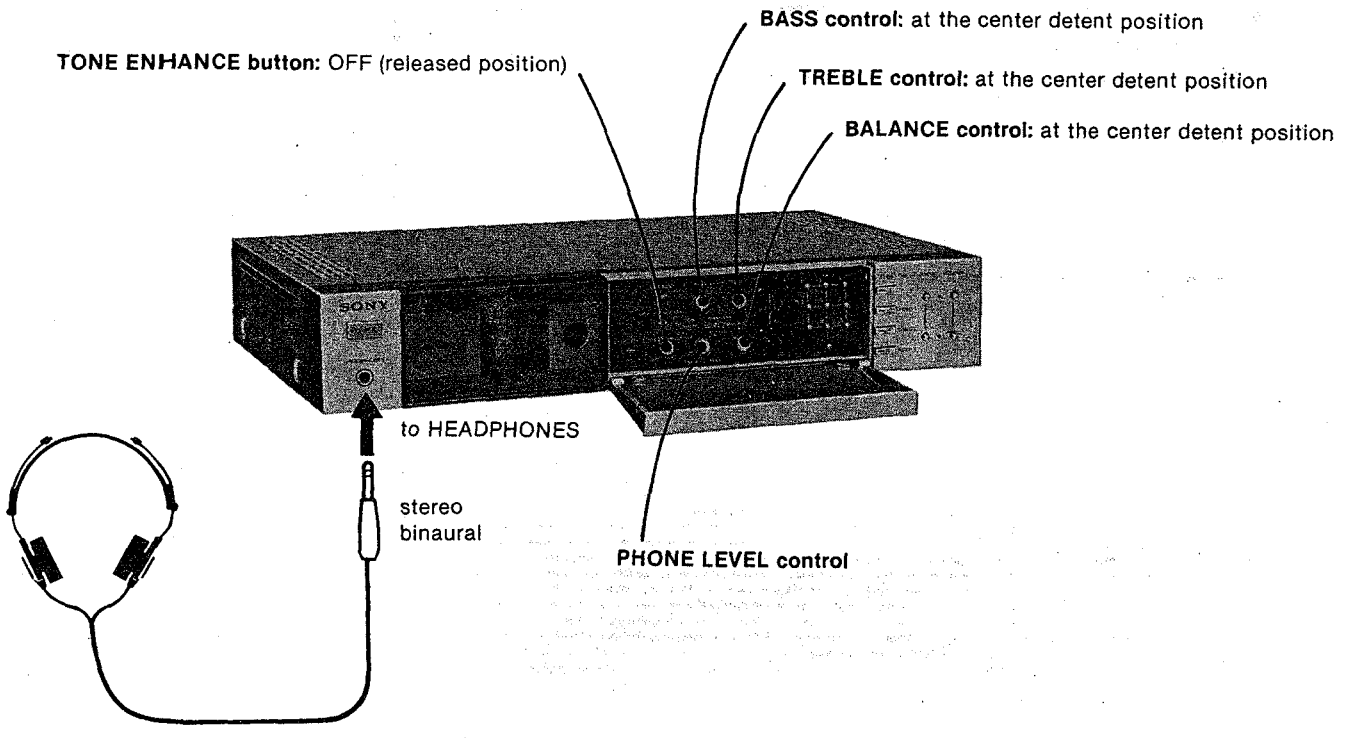
This channel has now been erased.

REPEAT THE ABOVE FOR ALL THE CHANNELS TO BE ERASED.

Operating note: It is not possible to erase a UHF channel from the memory and retain the CATV channel of the same number in the memory, or vice versa.
If either the UHF channel or the CATV channel of the same number is to be kept in the memory, do not erase the number.

SOUND ADJUSTMENTS

Satisfactory results will usually be obtained with the controls set at the following positions.
If any adjustments are necessary, adjust the required controls to your preference.


BASS control: at the center detent position
TONE ENHANCE button: OFF (released position)
TREBLE control: at the center detent position
BALANCE control: at the center detent position
to HEADPHONES
stereo
binaural
PHONE LEVEL control

For private listening, connect a headphones to the HEADPHONES jack.
Any low or high impedance stereo headphones can be connected.

Adjust the sound volume with the PHONE LEVEL control.

for less volume — for more volume

MIN MAX

TREBLE and BASS control
Adjust the tone to your preference.

for less treble — for more treble

MIN MAX

for less bass — for more bass

MIN MAX

BALANCE control
Adjust the amount of sound comming from each paired speaker, If required.

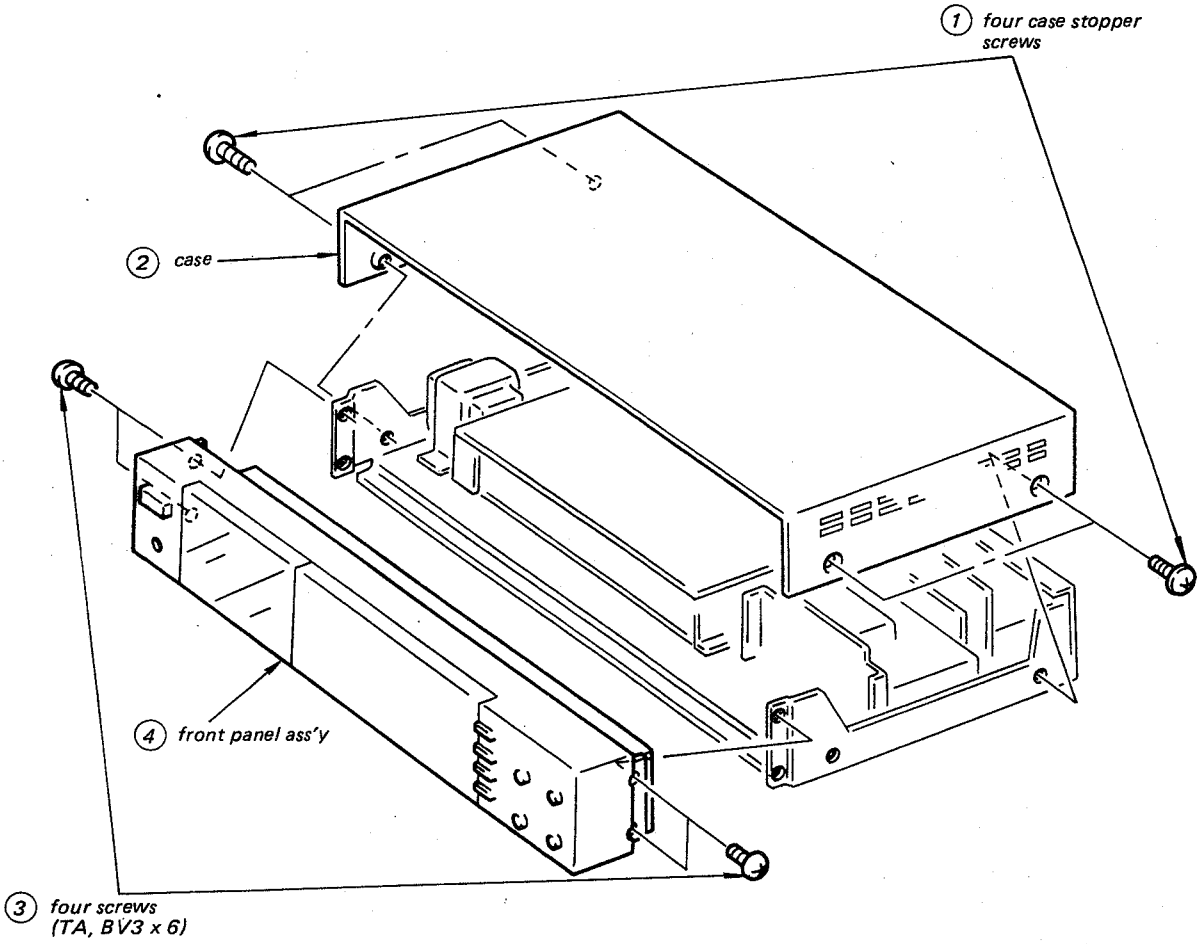
to increase the left speaker volume — to increase the right speaker volume

L R

TONE ENHANCE button
To enhance bass and treble sounds, press this button to set to ON.
Use the TONE ENHANCE system when listening to music at a low volume.
To disengage the TONE ENHANCE, press this button again to set to OFF.

SECTION 2
DISASSEMBLY

CASE & FRONT PANEL ASS'Y REMOVAL

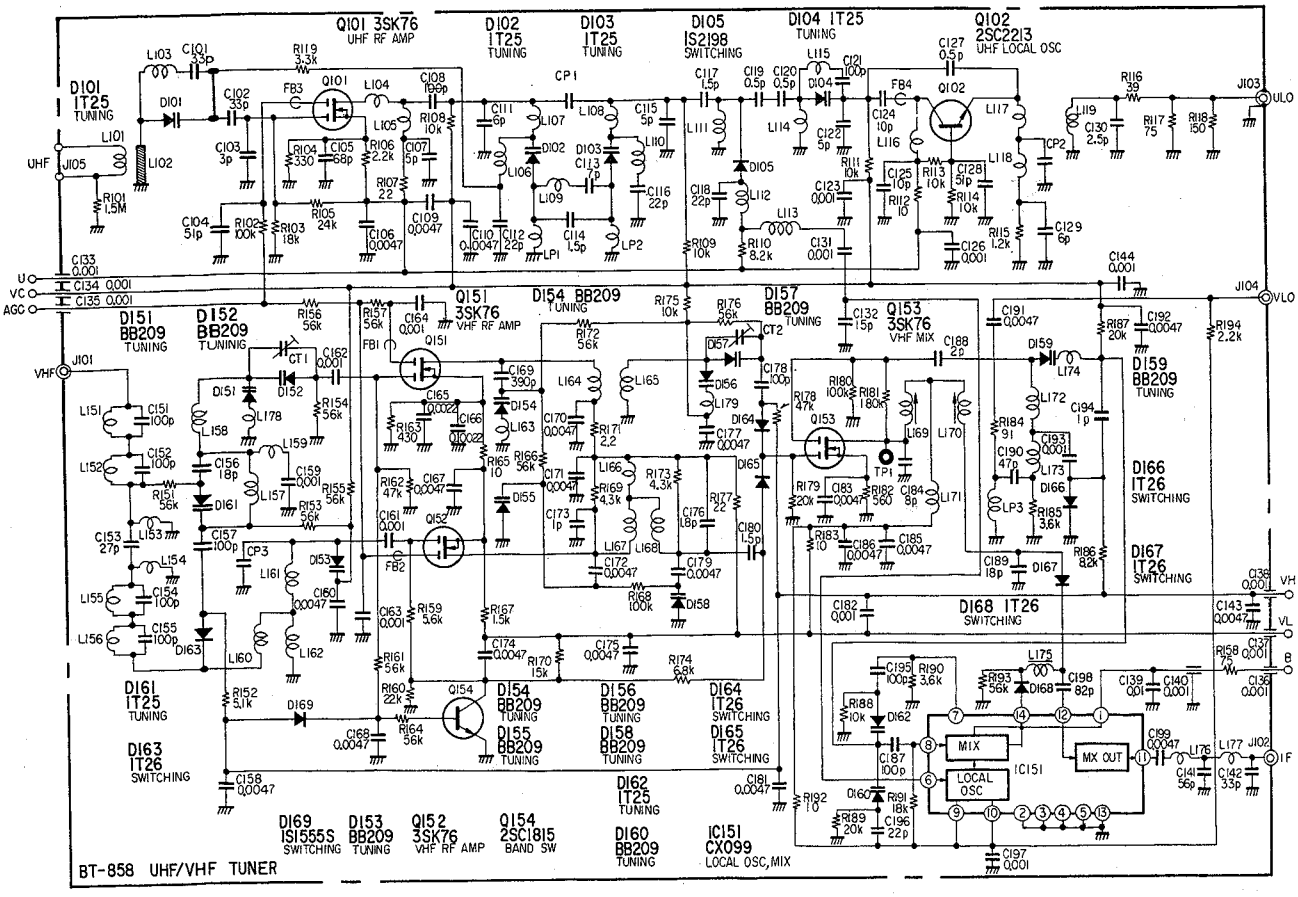


SECTION 3

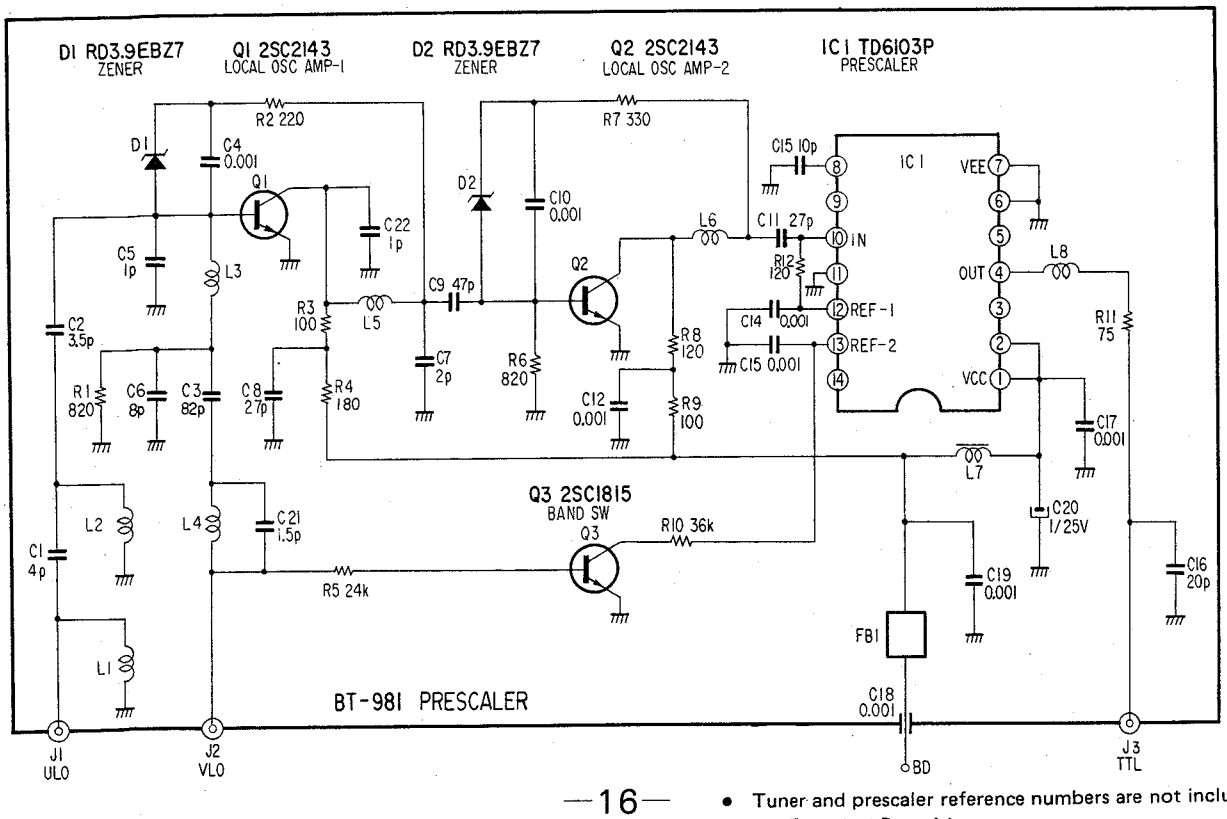
DIAGRAMS

3-1. VHF AND UHF TUNER SCHEMATIC DIAGRAMS

- **VHF/UHF TUNER BT-858**

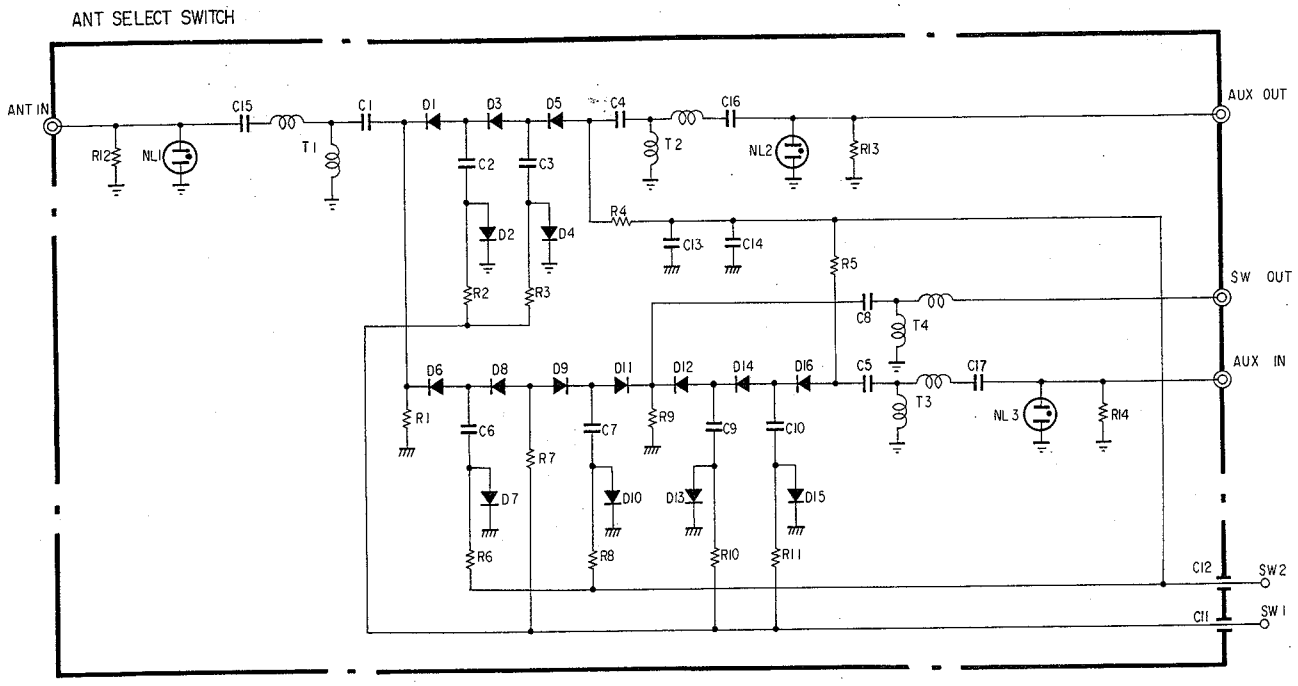


- **PRESCALER BT-981**



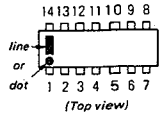
- Tuner and prescaler reference numbers are not included in the Electrical Parts List.

3-2. ANTENNA SELECT SWITCH SCHEMATIC DIAGRAM

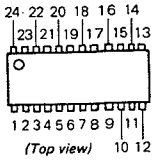


3-3. SEMICONDUCTORS

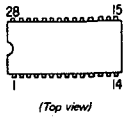
CX761A



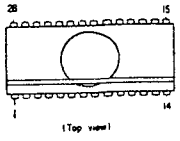
CX786



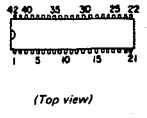
CX883



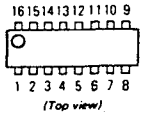
CX875A



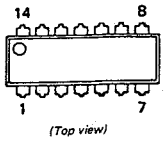
CX885A
μPD546C236
μPD553C158



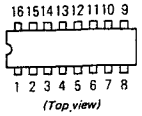
MB84027B
MB84052B



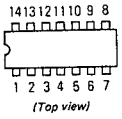
MB84081B



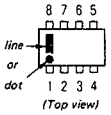
TC4027BP
TC4052BP
TC9125BP



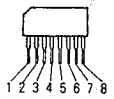
TC4081BP
μPC339C



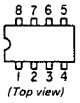
NJM4560D



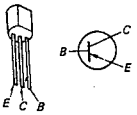
μPC1373H



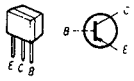
μPC4557C



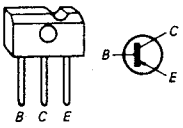
2SA1013



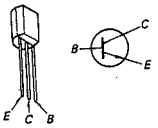
2SA1175
2SA1175F



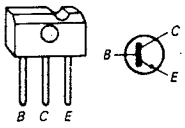
2SA937



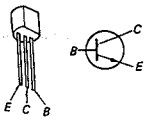
2SC1364



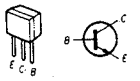
2SC1652
2SC2021



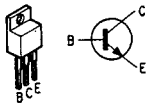
2SC1815
2SD788



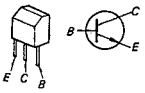
2SC2785
2SC2785F



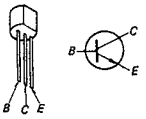
2SD313HP



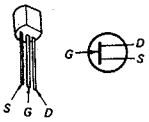
2SD773
2SD774



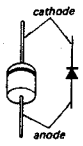
2SD789



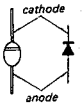
2SK107



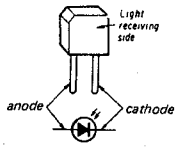
1SS119
1SS133



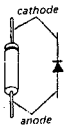
GH3F
U05E
U05G
V06C
V09C
V19C



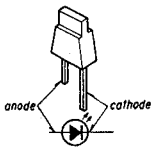
PH302B



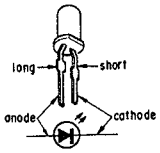
RD10E-C
RD10E-L2
RD12E-B2
RD13E-N2
RD27E-B1
RD33E-B3
RD33E-B3Z
RD3.3E-L2
RD33E-L3
RD33J-N3
RD4.7J-N2
RD5.6E-N2
RD6.2E-N3
RD7.5E-B3
RD7.5E-N3



SLP241B



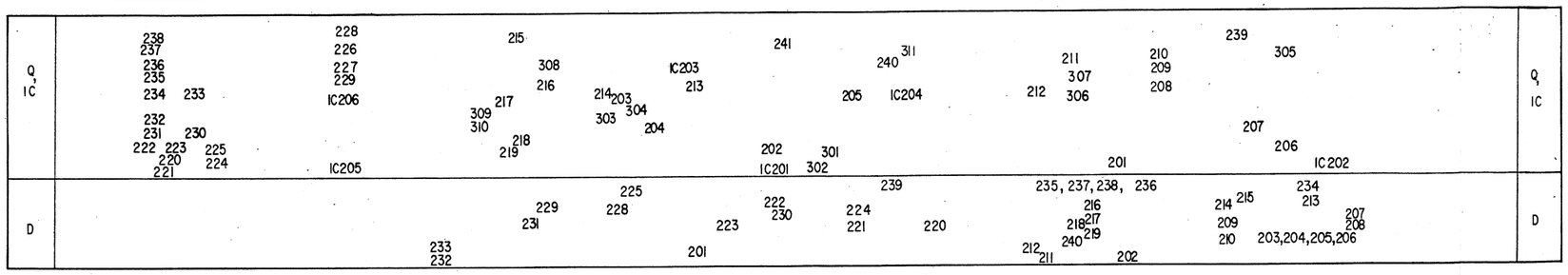
TLR124
TLY124

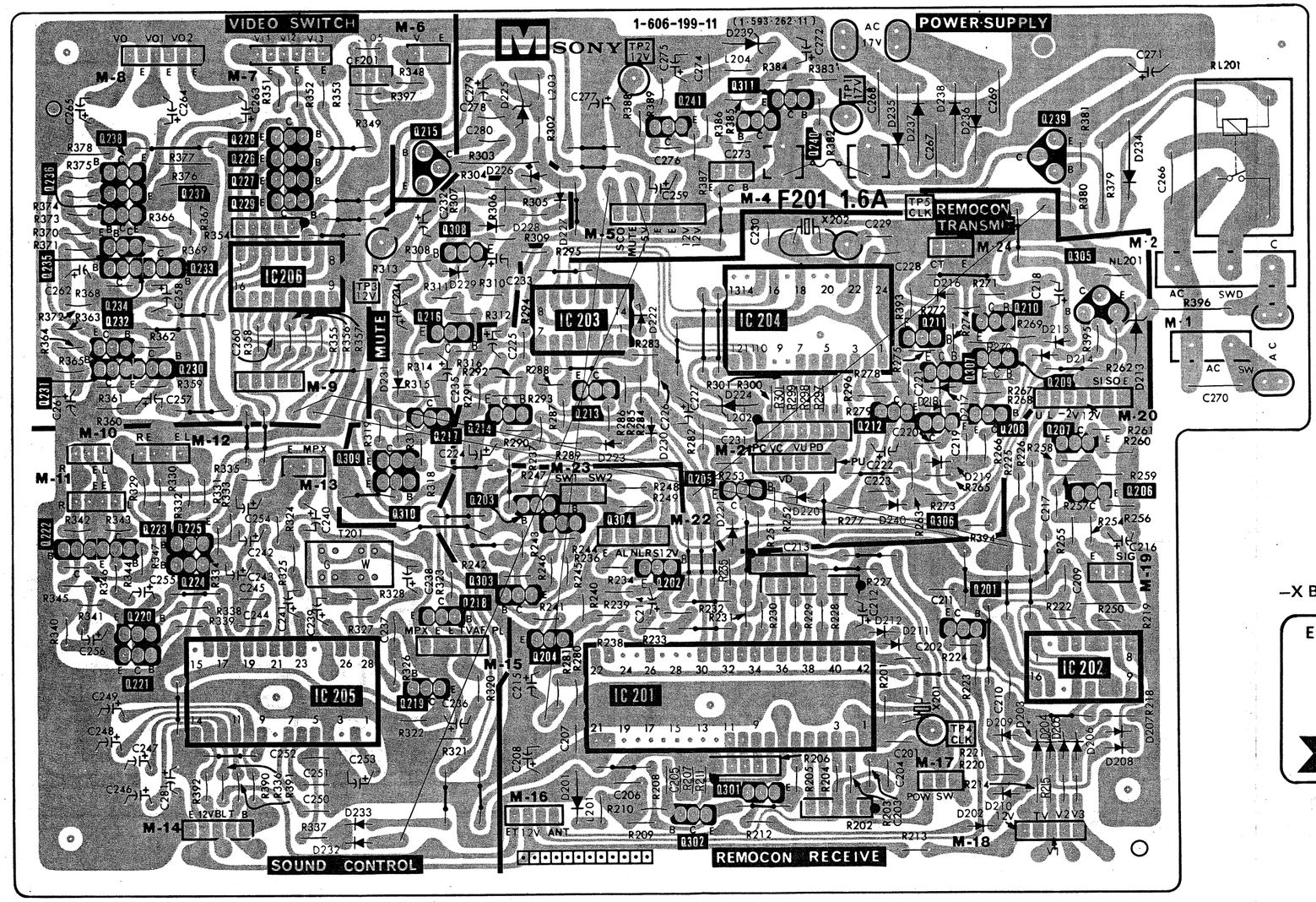


M [REMOTE DECODER
FUNCTION COUNTER,
REMOTE DRIVE, REMOTE CONTROL,
SOUND CONTROL,
VIDEO SWITCH] **X** [REG]

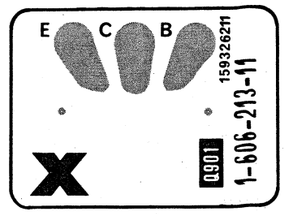
3-4. MOUNTING DIAGRAMS

– Conductor Side –





–X Board–

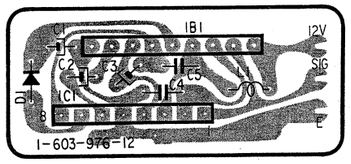


N [REMOTO CONTROL, HEAD AMP] T [CANNEL DISPLAY] HL [INDICATOR] K2 [IN/OUT] H3 [SOUND CONTROL] H4 [PHONES VOLUME, BALANCE] K1 [SOUND SWITCH]

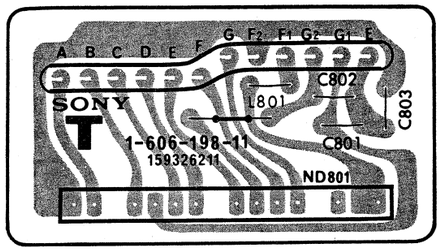
A B C D E F G

1 2 3 4

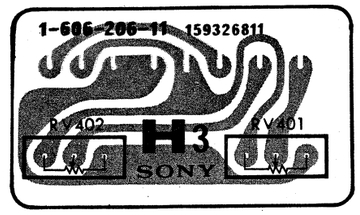
– N Board –



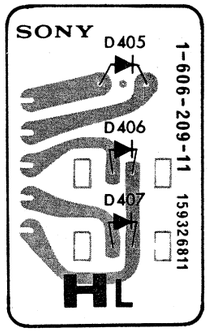
– T Board –



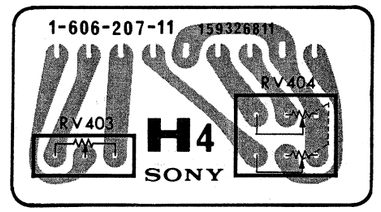
– H3 Board –



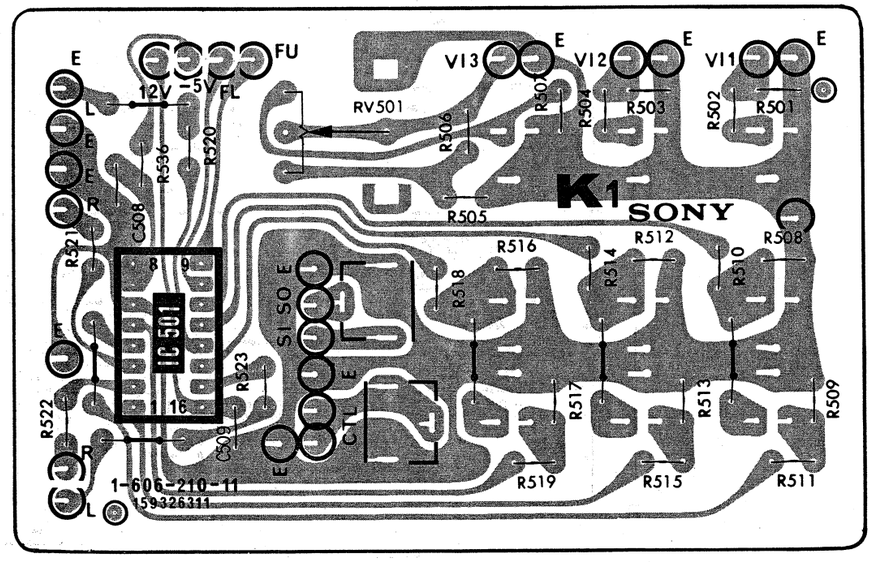
– HL Board –



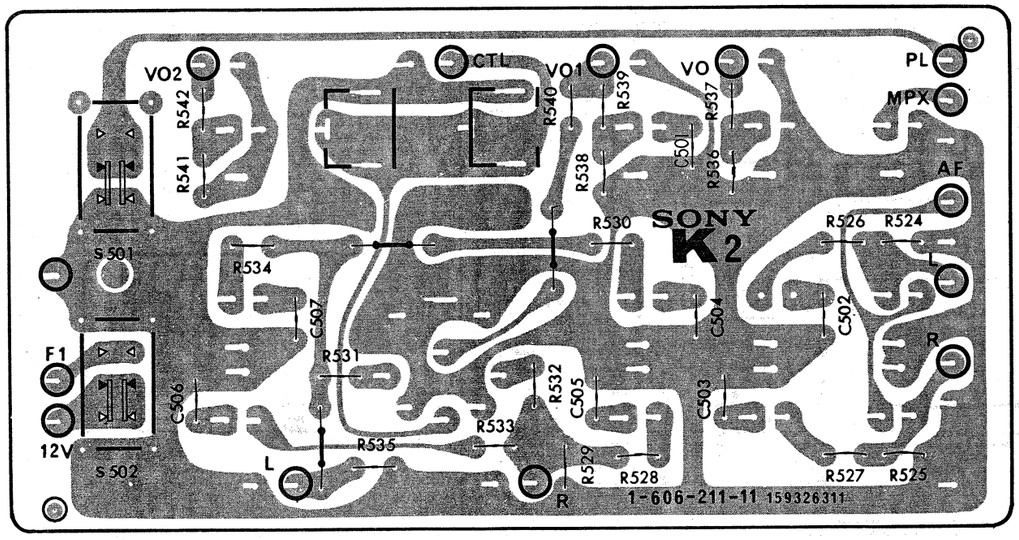
– H4 Board –



– H1 Board –



– K2 Board –

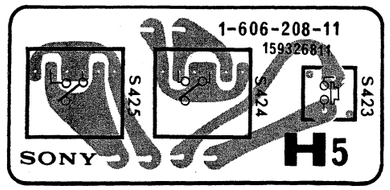


H5 [CUSTOMER CONTROL] **H1** [CUSTOMER CONTROL, INDICATOR] **H2** [CHANNEL SET, PICTURE CONTROL] **S1** [TUNER] **S2** [PRESCALER] **S3** [KEY SW]

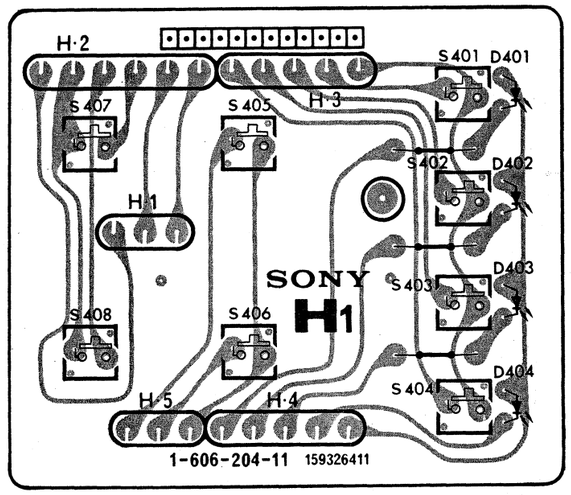
A B C D E F G

1 2 3 4

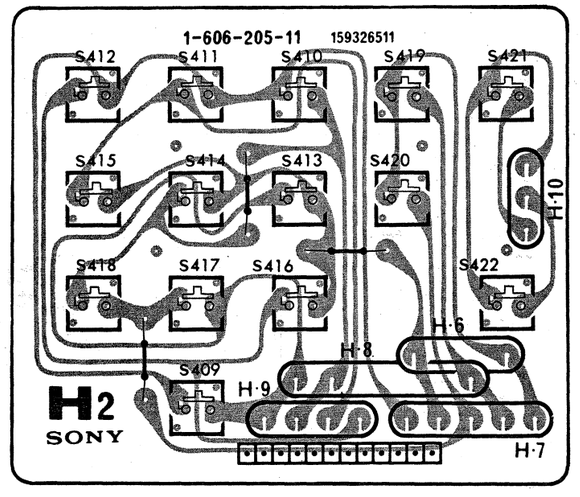
— H5 Board —



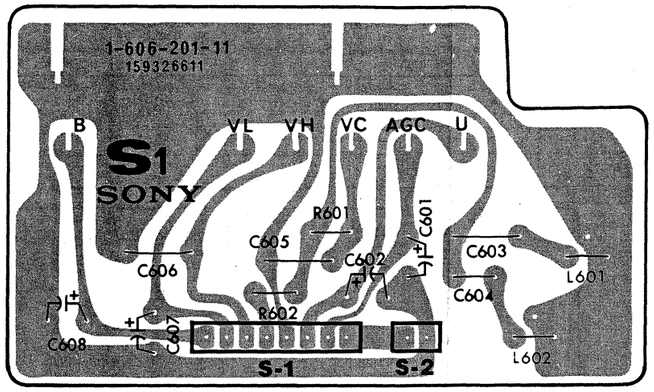
— H1 Board —



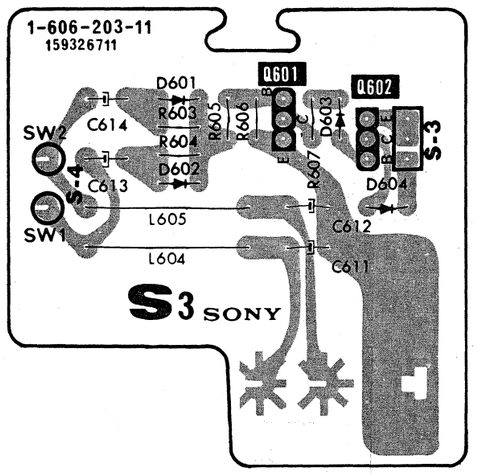
— H2 Board —



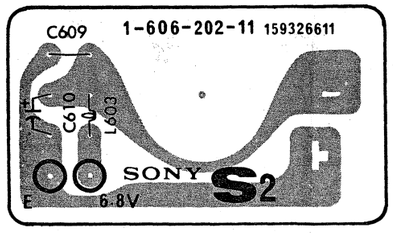
— S1 Board —



— S3 Board —

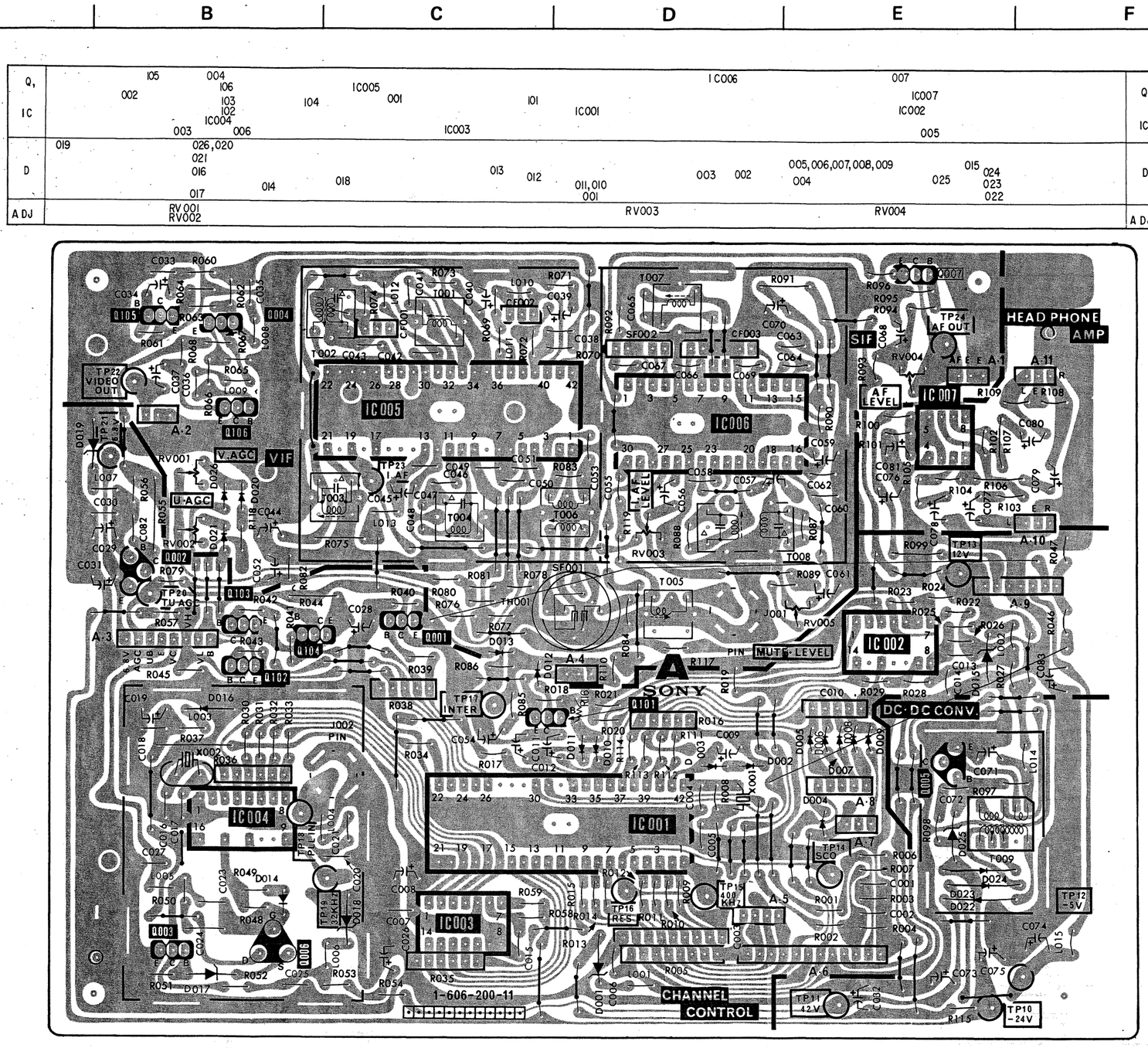


— S2 Board —

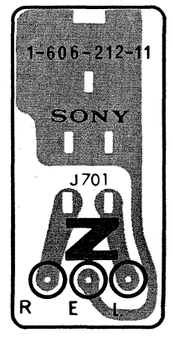


A [PLL CONTROLLER, RESET/AFT, SKIP MEMORY, PLL, VIF/SIF, SPLIT SIF, HEADPHONE AMP]

Z [HEADPHONE JACK]



—Z Board—



Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

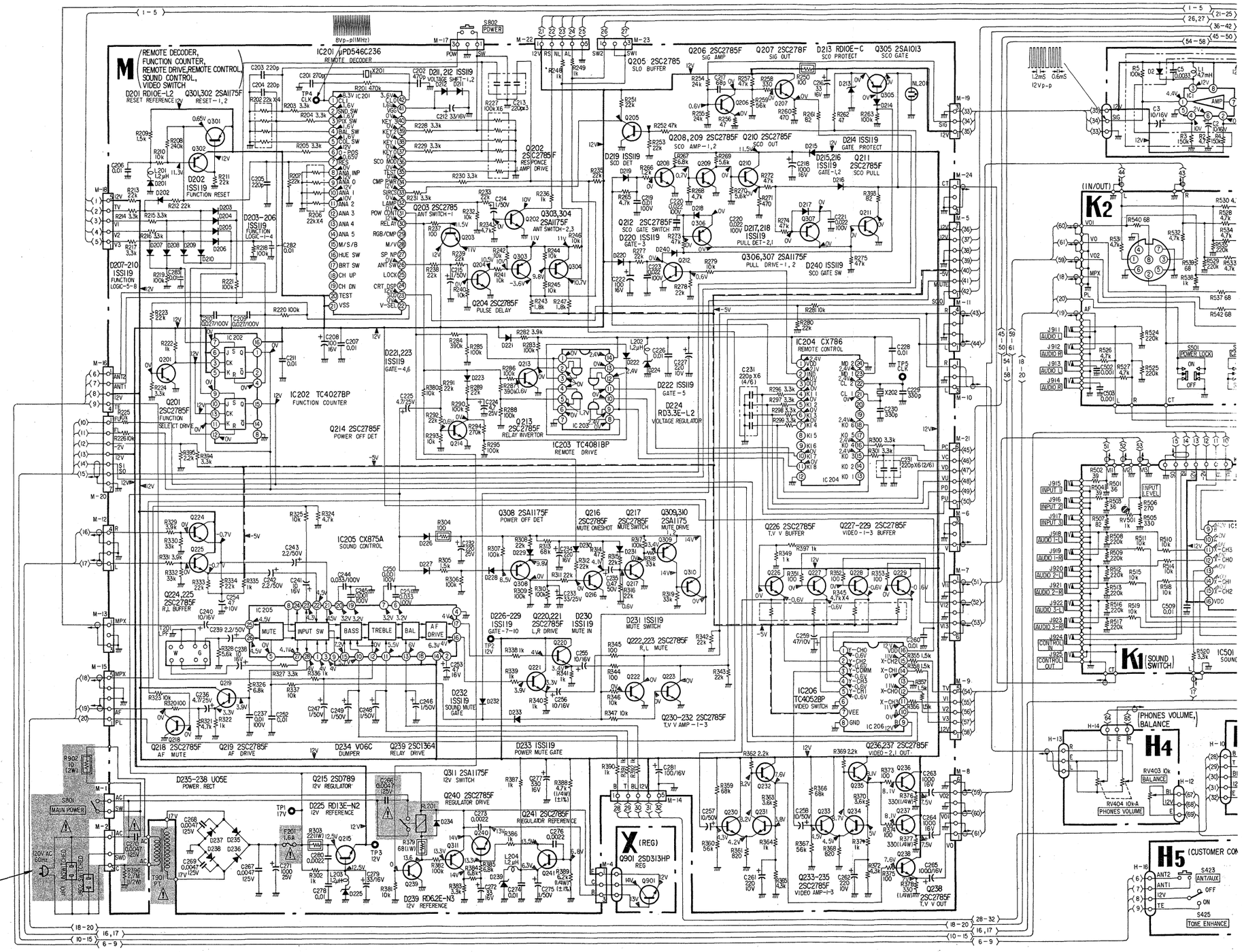
Note: Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

NOTE:

- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytics.
- All resistors are in ohms, ¼ W unless otherwise noted. k: 1000 Ω, M: 1000 kΩ
- ▭ : nonflammable resistor.
- △ : internal component.
- ▭ : panel designation.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- All voltages are in V.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken with a 20,000-ohm-per-volt VOM.
- Voltages are taken with set selected to CH-3(VHF LOW) position.
- ▭ : adjustment for repair.
- Readings are taken with a color-bar signal input.
- Voltage variations may be noted due to normal production tolerances.
- ⊘ : adjustable without removing cabinet.

CAUTION

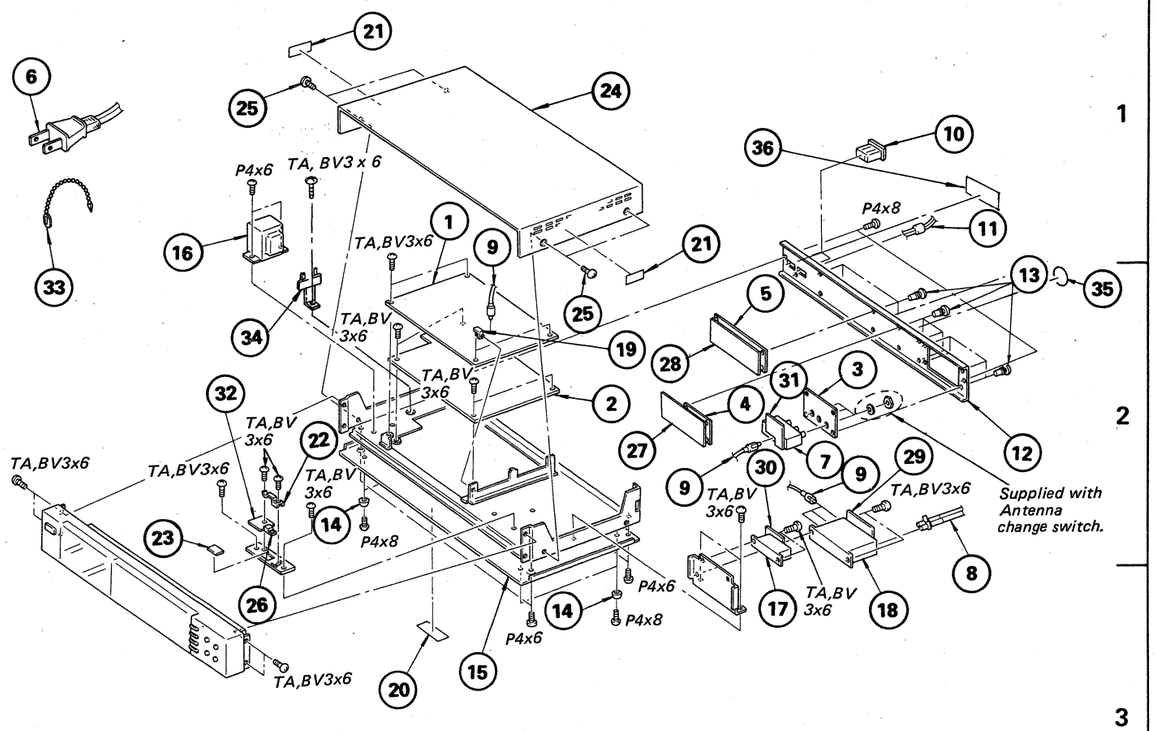
This set is equipped with a polarized ac power cord plug (one blade of the plug is wider than the other). When replacing the ac power cord, be sure to connect it with specified part number as shown in this diagram.



IC1 μPC1373H
REMOTE AMP
DI PH302B
INFRARED DETECTOR
(REMOTO CONTROL,) (HEAD AMP)
N
HL (INDICATOR)
D405 TLRI24
RESPONSE INDICATE
D406 SLP241B
ANT INDICATE
D407 SLP241B
AUX INDICATE
S2 (PRESCALER)
BT-981
ANTENNA TERMINAL
UHF IN 300Ω
TUNER BT-859
S1 (TUNER)
K2
(IN/OUT)
S501 POWER LOCK
S502 CARRIER
INTER SPLIT
D801 1SS119 SW
S401 S402 S403 S404 S405 S406 S407 S408 S409 S410 S411 S412 S413 S414 S415 S416 S417 S418 S419 S420 S421 S422
PICTURE UP
PICTURE DOWN
H2 (CHANNEL SET, PICTURE CONTROL)
D401 TLYI24
TV INDICATE
D402-404 TLY124
VIDEO-1-3 INDICATE
H1 (CUSTOMER CONTROL, INDICATOR)
S3 (KEY SW)
D601,602 1SS119
SW-2, GATE
D604 1SS119
KEY SW
Q602 2SA1175F
KEY SWITCH
Q603 1SS119
KEY SWITCH PROTECT
Q601 2SC2785F
KEY SWITCH DRIVE
CHANNELS | VOLTAGE
VHF 2CH ~ 6CH | 5V ~ 15V
VHF 7CH ~ 13CH | 7.3V ~ 10.5V
UHF 14CH ~ 83CH | 1.3V ~ 27V
MEASURED USING VTVM
K1 (SOUND SWITCH)
IC501 TC4052BP
SOUND SWITCH
H4 (PHONES VOLUME, BALANCE)
RV403 10k BALANCE
RV404 10k-A PHONES VOLUME
H3 (SOUND CONTROL)
RV401 10k BASS
RV402 10k TREBLE
H5 (CUSTOMER CONTROL)
S423 ANT/AUX
S424 NORMAL/CATV
S425 TONE ENHANCE
T (CANNEL DISPLAY)
IC001 μPD5553C158
PLL CONTROLLER
D002,003 1SS119
VOLTAGE SHIFT-1,2
D004-009 1SS119
PROTECT-1~6
IC002 μPC339C
RESET/AFT
(PLL CONTROLLER,RESET/AFT, SKIP MEMORY,PLL,VIF/SIF, SPLIT SIF,HEADPHONE AMP)
A
IC003 CX761A
SKIP MEMORY
IC004 TC9125P
PLL
D001 RD12E-B2
DISPLAY VOLTAGE SHIFT
D010,011 1SS119
AFT OR-1,2
D012 1SS119
AFT OUT
D013 1SS119
SOUND MUTE OUT
D014 1SS119
DUMP SWITCH
D016 RD7.5E-B3
VOLTAGE REGULATOR
Q001 2SC2785F
SOUND MUTE DRIVE
D015 RD5.6E-N2
RESET REFERENCE
Q101 2SA1175F
AFT OUT
Q002 2SD773
6.8V REGULATOR
Q102 2SA1175F
BAND SW-VH
Q103 2SA1175F
BAND SW-VL
Q104 2SA1175F
BAND SW-U
D019 RD7.5E-N3
6.8V REFERENCE
D021 1SS119
U AGC SW
D017 RD4.7J-N2
VOLTAGE SHIFT
D018 RD33J-N3
VC PROTECT
D020 1SS119
V AGC SW
Q005 2SD789
CONVERTER
D022 V19C
42V RECT
D023 V19C
-5V RECT
D024 V19C
-24V RECT
D025 RD27E-B1
-24V REFERENCE
IC007 μPC4557C
HEADPHONE AMP
Q006 2SK107
DC AMP
Q003 2SC2785F
FILTER
IC006 CX883
SPLIT SIF
IC005 CX885
VIF / SIF
Q004 2SC2785F
HOOK UP
Q105 2SA1175F
SYNC SEP
Q106 2SA1175F
VIDEO BUFFER
Q007 2SC2785F
AF AMP
Z (HEADPHONE JACK)
J701 HEADPHONE
—29—
—30—

SECTION 4
EXPLODED VIEWS

(1) CHASSIS



No.	Part No	Descrption	Remark
1	♦:A-1295-531-A	A BOARD, COMPLETE	
2	♦:A-1301-318-A	M BOARD, COMPLETE	
3	⚠.1-536-689-00	TERMINAL BOARD, ANTENNA	
4	1-536-691-00	TERMINAL BOARD, IN/OUT PUT	
5	1-536-692-00	TERMINAL BOARD, IN/OUTPUT (B)	
6	⚠.1-551-478-00	CORD, POWER	
7	⚠.1-553-774-12	SWITCH, ANTENNA CHANGE	
8	♦:1-555-049-00	FEEDER, SOLDERLESS TERMINAL	
9	♦:1-555-110-00	CABLE, PIN	
10	⚠.1-561-347-00	OUTLET, AC	
11	⚠.2-231-019-00	CLAMPER, CORD	
12	4-354-829-00	PANEL, REAR	
13	4-812-134-11	RIVET NYLON, 3.5	
14	2-231-002-00	FOOT, TIMER	
15	♦:4-354-831-00	LID, BOTTOM	
16	⚠.1-447-172-00	TRANSFORMER, POWER	
17	⚠.1-463-316-00	TUNER (BT-981)	
18	⚠.1-463-344-00	TUNER (BT-858)	
19	♦:3-701-832-00	HINGE, CIRCUIT BOARD	
20	3-703-043-21	LABEL, CAUTION, MAIN	
21	3-703-082-31	LABEL, CAUTION	
22	4-327-002-00	REG HOLD	
23	4-342-013-00	SPACER, MICA	
24	4-354-830-00	CASE	
25	4-847-802-11	SCREW, CASE STOPPER	
26	8-729-831-33	TRANSISTOR 2SD313HP-E	
27	♦:1-606-210-00	K1 BOARD	
28	♦:1-606-211-00	K2 BOARD	
29	♦:1-606-201-00	S1 BOARD	
30	♦:1-606-202-00	S2 BOARD	
31	♦:1-606-203-00	S3 BOARD	
32	♦:1-606-213-00	X BOARD	
33	4-308-870-00	CLIP,LEAD WIRE	
34	1-536-376-00	L-TYPE TERMINAL STRIP	
35	3-703-338-01	LABEL UL (US MODEL)	
36	4-354-845-00	LABEL MODEL NUMBER	

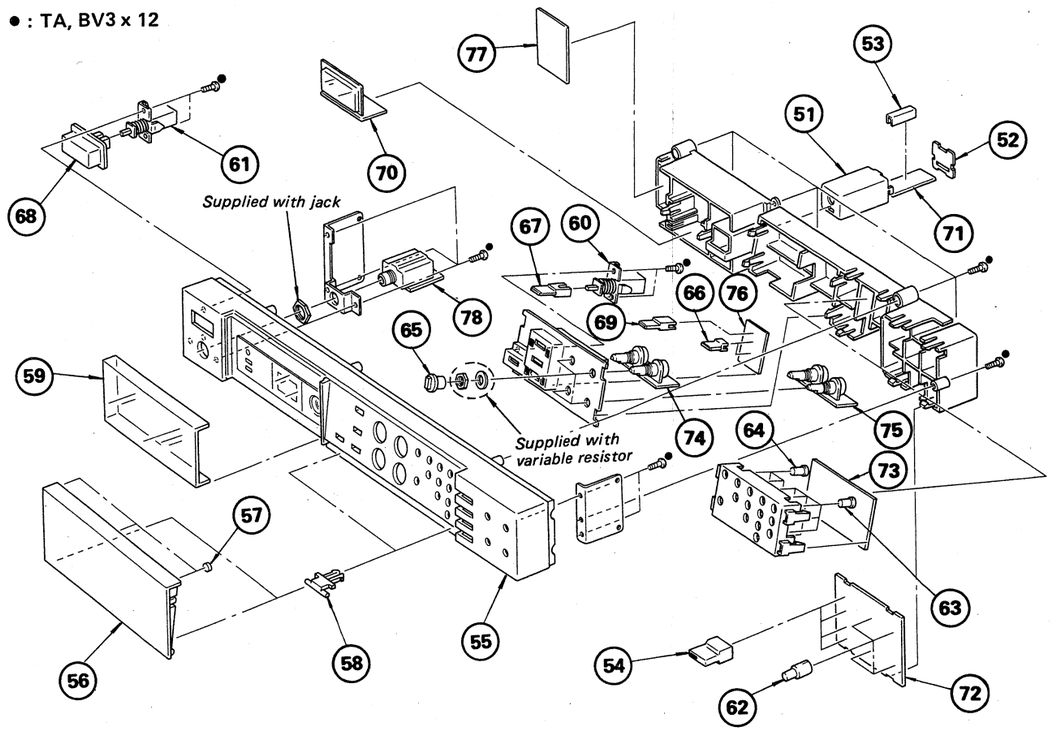
NOTE:
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- As to the part numbered with E-, refer to the electrical parts list.
- Items marked " ♦ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

(2) FRONT PANEL

● : TA, BV3 x 12



No.	Part No	Descrption	Remark
51	♦:4-342-117-00	CASE, SHIELD (MAIN), R	
52	♦:4-342-118-00	LID, SHIELD CASE, R	
53	♦:4-348-551-00	PLATE, SHIELD	
54	X-4354-801-0	BUTTON ASSY, FUNCTION	
55	X-4354-804-0	PANEL ASSY, FRONT	56,58,59
56	X-4354-803-0	DOOR ASSY	57
57	4-314-871-00	CUSHION	
58	3-662-365-00	SHAFT (S), DOOR	
59	4-354-821-00	COVER, TRANSPARENT	
60	⚠.1-552-926-41	SWITCH, PUSH	
61	⚠.1-553-262-00	SWITCH, PUSH (POWER SWITCH)	
62	4-354-804-00	KEY, UP DOWN	
63	4-354-805-01	KEY, CHANNEL	
64	4-354-805-11	KEY, CHANNEL	
65	4-354-807-00	KNOB, CONTROL	
66	4-354-808-00	PUSH BUTTON	
67	4-354-809-00	BUTTON, MASTER	
68	4-354-810-00	BUTTON, POWER	
69	4-354-819-00	BUTTON, ANTENNA	
70	♦:1-606-198-00	T BOARD	
71	♦:1-603-976-00	N BOARD	
72	♦:1-606-204-00	H1 BOARD	
73	♦:1-606-205-00	H2 BOARD	
74	♦:1-606-206-00	H3 BOARD	
75	♦:1-606-207-00	H4 BOARD	
76	♦:1-606-208-00	H5 BOARD	
77	♦:1-606-209-00	HL BOARD	
78	♦:1-606-212-00	Z BOARD	

NOTE:
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- As to the part numbered with E-, refer to the electrical parts list.
- Items marked " ♦ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref.No	Par
	♦:1-6
C801	1-1
C802	1-1
C803	1-1
L801	1-4
ND801	1-5
**********	
	♦:1-6
	4-3
	4-3
C1	1-1
C2	1-1
CR1	1-5
D1	8-7
D2	8-7
IC1	8-7
Q1	8-7
R1	1-2
R2	1-2
R3	1-2
R4	1-2
**********	
	1-6
	1-2

NOTE:
- The by s crit Repl numb
- Les une crit Ne une spé
- All have othe

SECTION 5
ELECTRICAL PARTS LIST T RC N A

A

Ref.No	Part No	Description			Remark
	♦:1-606-198-00	T BOARD *******			
		CAPACITOR			
C801	1-102-112-00	CERAMIC	330PF	10%	50V
C802	1-102-112-00	CERAMIC	330PF	10%	50V
C803	1-102-112-00	CERAMIC	330PF	10%	50V
		COIL			
L801	1-408-398-00	MICRO INDUCTOR 1.2UH			
		NEON LAMP			
ND801	1-519-173-00	INDICATOR TUBE (GREEN)			
**********					
	♦:1-604-956-00	RC BOARD ********			
	4-352-048-00	TERMINAL (A), BATTERY			
	4-352-049-00	TERMINAL (B), BATTERY			
		CAPACITOR			
C1	1-161-315-00	CERAMIC	220PF	10%	50V
C2	1-161-315-00	CERAMIC	220PF	10%	50V
		OSCILLATOR			
CR1	1-527-476-00	OSCILLATOR, CERAMIC			
		DIODE			
D1	8-719-193-03	DIODE SE303AX			
D2	8-719-901-44	DIODE SLP144B			
		IC			
IC1	8-759-907-86	IC CX786			
		TRANSISTOR			
Q1	8-729-965-22	TRANSISTOR 2SC1652			
		RESISTOR			
R1	1-246-772-00	CARBON	120	5%	1/8W
R2	1-246-780-00	CARBON	560	5%	1/8W
R3	1-246-788-00	CARBON	2.7K	5%	1/8W
R4	1-246-751-00	CARBON	2.2	5%	1/8W
**********					
	1-603-976-00	N BOARD *******			
	1-232-004-00	COMPOSITION CIRCUIT BLOCK			

Ref.No	Part No	Description			Remark
		CAPACITOR			
C1	1-123-617-00	ELECT	10MF	20%	16V
C2	1-123-617-00	ELECT	10MF	20%	16V
C3	1-123-617-00	ELECT	10MF	20%	16V
C4	1-161-019-00	CERAMIC	0.033MF	10%	25V
C5	1-108-567-00	MYLAR	0.0033MF	5%	50V
		DIODE			
D1	8-719-110-32	DIODE PH302B			
		IC			
IC1	8-759-113-73	IC UPC1373H			
		COIL			
L1	1-404-310-00	COIL 4.7MH			
**********					
	♦:A-1295-531-A	A BOARD, COMPLETE **********			
	1-536-354-00	POST PIN			
	♦:1-555-110-00	CABLE, PIN			
	♦:4-333-182-00	CASE (MAIN), SHIELD, PWM			
	♦:4-333-183-00	LID (UPPER), SHIELD CASE, PWM			
	♦:4-333-184-00	LID (BOTTOM), SHIELD CASE, PWM			
	♦:4-354-801-00	LID, UPPER, SHIED CASE, PLL			
	♦:4-354-802-00	LID, BOTTOM, SHIED CASE, PLL			
	♦:4-354-820-00	CASE (MAIN), SHIELD, PLL			
	♦:4-354-825-00	CASE (MAIN), SHIELD, V. SIF			
	♦:4-354-826-00	LID, UPPER, SHIELD CASE, V.SIF			
	♦:4-354-827-00	LID, BOTTOM, SHIELD CASE, V.SIF			
		CONNECTOR			
A1	♦:1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P			
A2	♦:1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P			
A3	♦:1-560-128-00	PLUG, CONNECTOR (2.5MM PITCH)			
A4	♦:1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P			
A5	♦:1-560-124-00	PLUG, CONNECTOR (2.5MM) 4P			
A6	♦:1-560-156-00	PLUG, CONNECTOR (2.5MM PITCH)			
A7	♦:1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P			
A8	♦:1-560-125-00	PLUG, CONNECTOR (2.5MM) 5P			
A9	♦:1-560-127-00	PLUG, CONNECTOR (2.5MM) 7P			
A10	♦:1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P			
A11	♦:1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P			
		CAPACITOR			
C001	1-102-112-00	CERAMIC	330PF	10%	50V
C002	1-102-112-00	CERAMIC	330PF	10%	50V
C003	1-232-171-11	COMPOSITION CIRCUIT BLOCK 220PX8			
C004	1-102-111-00	CERAMIC	270PF	10%	50V
C005	1-102-114-00	CERAMIC	470PF	10%	50V

Ref.No	Part No	Description			Remark
C006	1-101-004-00	CERAMIC	0.01MF		50V
C007	1-101-004-00	CERAMIC	0.01MF		50V
C008	1-123-333-00	ELECT	100MF	20%	16V
C009	1-123-318-00	ELECT	33MF	20%	16V
C010	1-231-682-00	COMPOSITION CIRCUIT BLOCK 220PX4			
C011	1-123-379-00	ELECT	0.47MF	20%	50V
C012	1-123-381-00	ELECT	2.2MF	20%	50V
C013	1-102-074-00	CERAMIC	0.001MF	10%	50V
C014	1-101-004-00	CERAMIC	0.01MF		50V
C015	1-102-106-00	CERAMIC	100PF	10%	50V
C016	1-101-886-00	CERAMIC	62PF	5%	50V
C017	1-101-884-00	CERAMIC	56PF	5%	50V
C018	1-101-004-00	CERAMIC	0.01MF		50V
C019	1-123-318-00	ELECT	33MF	20%	16V
C020	1-102-807-00	CERAMIC	5PF	1PF	50V
C021	1-102-114-00	CERAMIC	470PF	10%	50V
C023	1-108-375-00	MYLAR	0.0068MF	10%	100V
C024	1-108-389-00	MYLAR	0.1MF	10%	100V
C025	1-101-004-00	CERAMIC	0.01MF		50V
C026	1-123-356-00	ELECT	10MF	20%	50V
C027	1-102-074-00	CERAMIC	0.001MF	10%	50V
C028	1-123-323-00	ELECT	470MF	20%	16V
C029	1-123-356-00	ELECT	10MF	20%	16V
C030	1-101-004-00	CERAMIC	0.01MF		50V
C031	1-123-333-00	ELECT	100MF	20%	16V
C032	1-123-359-00	ELECT	47MF	20%	50V
C033	1-102-074-00	CERAMIC	0.001MF	10%	50V
C034	1-123-380-00	ELECT	1MF	20%	50V
C035	1-102-959-00	CERAMIC	22PF	5%	50V
C036	1-102-109-00	CERAMIC	180PF	10%	50V
C037	1-123-308-00	ELECT	220MF	20%	10V
C038	1-108-381-00	MYLAR	0.022MF	10%	100V
C039	1-123-447-00	ELECT	0.22MF	20%	50V
C040	1-123-447-00	ELECT	0.22MF	20%	50V
C041	1-102-520-00	CERAMIC	39PF	5%	50V
C042	1-102-129-00	CERAMIC	0.01MF	10%	50V
C043	1-102-121-00	CERAMIC	0.0022MF	10%	50V
C044	1-123-318-00	ELECT	33MF	20%	16V
C045	1-123-356-00	ELECT	10MF	20%	16V
C046	1-102-121-00	CERAMIC	0.0022MF	10%	50V
C047	1-102-506-00	CERAMIC	7PF	0.5PF	50V
C048	1-102-494-00	CERAMIC	68PF	5%	50V
C049	1-102-121-00	CERAMIC	0.0022MF	10%	50V
C050	1-102-121-00	CERAMIC	0.0022MF	10%	50V
C051	1-102-121-00	CERAMIC	0.0022MF	10%	50V
C052	1-123-380-00	ELECT	1MF	20%	50V
C053	1-102-121-00	CERAMIC	0.0022MF	10%	50V
C054	1-123-328-00	ELECT	4.7MF	20%	25V
C055	1-102-121-00	CERAMIC	0.0022MF	10%	50V
C056	1-123-328-00	ELECT	4.7MF	20%	25V
C057	1-123-328-00	ELECT	4.7MF	20%	25V
C058	1-101-004-00	CERAMIC	0.01MF		50V
C059	1-123-330-00	ELECT	22MF	20%	16V

Ref.No	Part No	Description			Remark
C062	1-102-121-00	CERAMIC	0.0022MF	10%	50V
C063	1-101-006-00	CERAMIC	0.047MF		50V
C064	1-101-006-00	CERAMIC	0.047MF		50V
C065	1-102-649-00	CERAMIC	56PF	5%	50V
C066	1-102-121-00	CERAMIC	0.0022MF	10%	50V
C067	1-102-121-00	CERAMIC	0.0022MF	10%	50V
C068	1-123-333-00	ELECT	100MF	20%	16V
C069	1-102-121-00	CERAMIC	0.0022MF	10%	50V
C070	1-123-318-00	ELECT	33MF	20%	16V
C071	1-123-333-00	ELECT	100MF	20%	16V
C072	1-108-373-00	MYLAR	0.0047MF	10%	100V
C073	1-123-357-00	ELECT	22MF	20%	50V
C074	1-123-308-00	ELECT	220MF	20%	10V
C075	1-123-360-00	ELECT	100MF	20%	50V
C076	1-123-333-00	ELECT	100MF	20%	16V
C077	1-123-380-00	ELECT	1MF	20%	50V
C078	1-123-380-00	ELECT	1MF	20%	50V
C079	1-123-333-00	ELECT	100MF	20%	16V
C080	1-123-333-00	ELECT	100MF	20%	16V
C081	1-123-380-00	ELECT	1MF	20%	50V
C082	1-102-121-00	CERAMIC	0.0022MF	10%	50V
C083	1-123-306-00	ELECT	47MF	20%	10V
		FILTER			
CF001	1-527-260-00	FILTER, CERAMIC (4.5MHZ)			
CF002	1-409-332-00	CERAMIC TRAP 4.5MHz			
CF003	1-527-248-XX	10.7MHZ SOLID STATE FILTER			
		DIODE			
D001	8-719-100-65	DIODE RD12EB2			
D002	8-719-911-19	DIODE 1SS119			
D003	8-719-911-19	DIODE 1SS119			
D004	8-719-911-19	DIODE 1SS119			
D005	8-719-911-19	DIODE 1SS119			
D006	8-719-911-19	DIODE 1SS119			
D007	8-719-911-19	DIODE 1SS119			
D008	8-719-911-19	DIODE 1SS119			
D009	8-719-911-19	DIODE 1SS119			
D010	8-719-911-19	DIODE 1SS119			
D011	8-719-911-19	DIODE 1SS119			
D012	8-719-911-19	DIODE 1SS119			
D013	8-719-911-19	DIODE 1SS119			
D014	8-719-911-19	DIODE 1SS119			
D015	8-719-102-71	DIODE RD5.6E-N2			
D016	8-719-100-46	DIODE RD7.5EB3			
D017	8-719-103-25	DIODE RD4.7JN2			
D018	=>8-719-101-07	DIODE RD33E-B3			
D019	8-719-102-82	DIODE RD7.5EN3			
D020	8-719-911-19	DIODE 1SS119			
D021	8-719-911-19	DIODE 1SS119			
D022	=>8-719-305-15	DIODE GH3F			

NOTE:

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RESISTORS
- All resistors are in ohms
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COILS
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A

Ref.No	Part No	Description	Remark
D023	=>8-719-305-15	DIODE GH3F	
D024	=>8-719-305-15	DIODE GH3F	
D025	8-719-100-93	DIODE RD27EB1	
D026	8-719-911-19	DIODE 1SS119	
		IC	
IC001	8-759-100-25	IC UPD553C158	
IC002	8-759-133-90	IC UPC339C	
IC003	8-757-611-00	IC CX761A	
IC004	8-759-291-26	IC TC9125P	
IC005	8-758-851-00	IC CX885A	
IC006	8-759-608-83	IC CX883	
IC007	8-759-145-57	IC UPC4557C	
		JACK	
J001	♦:1-526-575-00	SOCKET, PLUG	
J002	♦:1-526-575-00	SOCKET, PLUG	
		COIL	
L001	1-408-398-00	MICRO INDUCTOR 1.2UH	
L002	1-408-398-00	MICRO INDUCTOR 1.2UH	
L003	1-408-398-00	MICRO INDUCTOR 1.2UH	
L004	1-420-945-00	COIL, AIR-CORE 70UH	
L005	1-408-421-00	MICRO INDUCTOR 100UH	
L006	1-408-398-00	MICRO INDUCTOR 1.2UH	
L007	1-408-398-00	MICRO INDUCTOR 1.2UH	
L008	1-408-420-00	MICRO INDUCTOR 82UH	
L009	1-408-413-00	MICRO INDUCTOR 22UH	
L010	1-408-412-00	MICRO INDUCTOR 18UH	
L011	1-408-403-00	MICRO INDUCTOR 3.3UH	
L012	1-408-403-00	MICRO INDUCTOR 3.3UH	
L013	1-408-408-00	MICRO INDUCTOR 8.2UH	
L014	1-408-421-00	MICRO INDUCTOR 100UH	
L015	1-408-421-00	MICRO INDUCTOR 100UH	
		TRANSISTOR	
Q001	=>8-729-178-54	TRANSISTOR 2SC2785	
Q002	8-729-177-32	TRANSISTOR 2SD773-L	
Q003	=>8-729-178-54	TRANSISTOR 2SC2785	
Q004	=>8-729-178-54	TRANSISTOR 2SC2785	
Q005	=>8-729-177-43	TRANSISTOR 2SD774	
Q006	=>8-769-200-30	TRANSISTOR 2SK107-3	
Q007	=>8-729-178-54	TRANSISTOR 2SC2785	
Q101	=>8-729-117-54	TRANSISTOR 2SA1175	
Q102	=>8-729-117-54	TRANSISTOR 2SA1175	
Q103	=>8-729-117-54	TRANSISTOR 2SA1175	
Q104	=>8-729-117-54	TRANSISTOR 2SA1175	
Q105	=>8-729-117-54	TRANSISTOR 2SA1175	
Q106	=>8-729-117-54	TRANSISTOR 2SA1175	
		RESISTOR	
R001	1-246-787-00	CARBON 2.2K 1/8W	
R002	1-246-787-00	CARBON 2.2K 1/8W	

Ref.No	Part No	Description	Remark
R003	1-246-805-00	CARBON 68K 1/8W	
R004	1-246-805-00	CARBON 68K 1/8W	
R005	1-231-570-00	COMPOSITION CIRCUIT BLOCK 220KX7	
R006	1-246-803-00	CARBON 47K 1/8W	
R007	1-246-803-00	CARBON 47K 1/8W	
R008	1-247-049-00	CARBON 470K 1/8W	
R009	1-246-787-00	CARBON 2.2K 1/8W	
R010	1-246-787-00	CARBON 2.2K 1/8W	
R011	1-246-787-00	CARBON 2.2K 1/8W	
R012	1-246-787-00	CARBON 2.2K 1/8W	
R013	1-246-787-00	CARBON 2.2K 1/8W	
R014	1-246-787-00	CARBON 2.2K 1/8W	
R015	1-246-787-00	CARBON 2.2K 1/8W	
R016	1-231-569-00	COMPOSITION CIRCUIT BLOCK 22KX4	
R017	1-246-803-00	CARBON 47K 1/8W	
R018	1-246-807-00	CARBON 100K 1/8W	
R019	1-246-799-00	CARBON 22K 1/8W	
R020	1-246-799-00	CARBON 22K 1/8W	
R021	1-246-799-00	CARBON 22K 1/8W	
R022	1-214-148-00	METAL 4.7K 1% 1/4W	
R023	1-214-148-00	METAL 4.7K 1% 1/4W	
R024	1-214-148-00	METAL 4.7K 1% 1/4W	
R025	1-214-164-00	METAL 22K 1% 1/4W	
R026	1-214-166-00	METAL 27K 1% 1/4W	
R027	1-246-783-00	CARBON 1K 1/8W	
R028	1-246-791-00	CARBON 4.7K 1/8W	
R029	1-247-046-00	CARBON 270K 1/8W	
R030	1-246-799-00	CARBON 22K 1/8W	
R031	1-246-799-00	CARBON 22K 1/8W	
R032	1-246-799-00	CARBON 22K 1/8W	
R033	1-246-799-00	CARBON 22K 1/8W	
R034	1-246-799-00	CARBON 22K 1/8W	
R035	1-231-683-00	COMPOSITION CIRCUIT BLOCK 22KX5	
R036	1-231-683-00	COMPOSITION CIRCUIT BLOCK 22KX5	
R037	1-213-134-00	METAL 180 5% 1W	F
R038	1-231-569-00	COMPOSITION CIRCUIT BLOCK 22KX4	
R039	1-246-783-00	CARBON 1K 1/8W	
R040	1-246-795-00	CARBON 10K 1/8W	
R041	1-246-783-00	CARBON 1K 1/8W	
R042	1-246-783-00	CARBON 1K 1/8W	
R043	1-246-783-00	CARBON 1K 1/8W	
R044	1-211-409-00	CARBON 10 5% 1/8W	F
R045	1-246-811-00	CARBON 220K 1/8W	
R046	1-246-795-00	CARBON 10K 1/8W	
R047	1-246-807-00	CARBON 100K 1/8W	
R048	1-246-795-00	CARBON 10K 1/8W	
R049	1-246-791-00	CARBON 4.7K 1/8W	
R050	1-246-800-00	CARBON 27K 1/8W	
R051	1-246-789-00	CARBON 3.3K 1/8W	
R052	1-246-799-00	CARBON 22K 1/8W	
R053	1-246-783-00	CARBON 1K 1/8W	
R054	1-246-783-00	CARBON 1K 1/8W	
R055	1-212-376-00	METAL 22 5% 1W	F

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A M

Ref.No	Part No	Description				Remark
R056	1-246-783-00	CARBON	1K		1/8W	
R057	1-246-811-00	CARBON	220K		1/8W	
R058	1-247-049-00	CARBON	470K		1/8W	
R059	1-246-473-00	CARBON	1K	5%	1/4W	
R060	1-246-779-00	CARBON	470		1/8W	
R061	1-246-803-00	CARBON	47K		1/8W	
R062	1-246-789-00	CARBON	3.3K		1/8W	
R063	1-246-789-00	CARBON	3.3K		1/8W	
R064	1-246-774-00	CARBON	180		1/8W	
R065	1-246-778-00	CARBON	390		1/8W	
R066	1-246-780-00	CARBON	560		1/8W	
R067	1-246-778-00	CARBON	390		1/8W	
R068	1-246-791-00	CARBON	4.7K		1/8W	
R069	1-246-777-00	CARBON	330		1/8W	
R070	1-246-807-00	CARBON	100K		1/8W	
R071	1-246-782-00	CARBON	820		1/8W	
R072	1-246-802-00	CARBON	39K		1/8W	
R073	1-247-047-00	CARBON	330K		1/8W	
R074	1-246-783-00	CARBON	1K		1/8W	
R075	1-211-427-00	CARBON	100	5%	1/8W	F
R076	1-214-162-00	METAL	18K	1%	1/4W	
R077	1-214-164-00	METAL	22K	1%	1/4W	
R078	1-246-789-00	CARBON	3.3K		1/8W	
R079	1-246-787-00	CARBON	2.2K		1/8W	
R080	1-246-790-00	CARBON	3.9K		1/8W	
R081	1-246-785-00	CARBON	1.5K		1/8W	
R082	1-246-797-00	CARBON	15K		1/8W	
R083	1-246-790-00	CARBON	3.9K		1/8W	
R084	1-246-787-00	CARBON	2.2K		1/8W	
R085	1-246-783-00	CARBON	1K		1/8W	
R086	1-247-046-00	CARBON	270K		1/8W	
R087	1-246-788-00	CARBON	2.7K		1/8W	
R088	1-246-850-00	CARBON	36K		1/8W	
R089	1-246-795-00	CARBON	10K		1/8W	
R091	1-247-032-00	CARBON	68	5%	1/8W	F
R092	1-246-779-00	CARBON	470		1/8W	
R093	1-246-783-00	CARBON	1K		1/8W	
R094	1-246-851-00	CARBON	4.3K		1/8W	
R095	1-246-793-00	CARBON	6.8K		1/8W	
R096	1-246-789-00	CARBON	3.3K		1/8W	
R097	1-246-790-00	CARBON	3.9K		1/8W	
R098	1-246-783-00	CARBON	1K		1/8W	
R099	1-211-417-00	CARBON	22	5%	1/8W	F
R100	1-246-795-00	CARBON	10K		1/8W	
R101	1-246-795-00	CARBON	10K		1/8W	
R102	1-246-798-00	CARBON	18K		1/8W	
R103	1-246-791-00	CARBON	4.7K		1/8W	
R104	1-246-798-00	CARBON	18K		1/8W	
R105	1-246-791-00	CARBON	4.7K		1/8W	
R106	1-246-435-00	CARBON	27	5%	1/4W	
R107	1-246-435-00	CARBON	27	5%	1/4W	
R108	1-246-783-00	CARBON	1K		1/8W	
R109	1-246-783-00	CARBON	1K		1/8W	
R110	1-246-795-00	CARBON	10K		1/8W	
R111	1-246-783-00	CARBON	1K		1/8W	
R112	1-246-783-00	CARBON	1K		1/8W	
R113	1-246-783-00	CARBON	1K		1/8W	
R114	1-246-783-00	CARBON	1K		1/8W	
R115	1-246-783-00	CARBON	1K		1/8W	
R116	1-246-807-00	CARBON	100K		1/8W	
R117	1-246-795-00	CARBON	10K		1/8W	
R118	1-246-774-00	CARBON	180		1/8W	
R119	1-246-788-00	CARBON	2.7K		1/8W	

VARIABLE RESISTOR

RV001	1-224-251-XX	RES, ADJ, SOLID	4.7K
RV002	1-224-251-XX	RES, ADJ, SOLID	4.7K
RV003	1-224-252-XX	RES, ADJ, SOLID	10K
RV004	1-224-252-XX	RES, ADJ, SOLID	10K

FILTER

SF001	1-404-227-41	SAWF
SF002	1-404-351-00	SAWF

TRANSFORMER

T001	1-404-182-00	COIL, VIF
T002	1-403-367-00	COIL, SIF
T003	1-404-283-00	SIFT
T004	1-404-181-00	COIL, VIF
T005	1-404-153-00	VIFT
T006	1-404-321-00	VIFT
T007	1-404-169-00	TRANSFORMER, VIFT
T008	1-404-011-00	TRANSFORMER, DISCRI
T009	1-447-174-00	TRANSFORMER, CONVERTER

THERMISTOR

TH001	1-800-626-00	THERMISTOR S-1500

CRYSTAL

X001	1-527-532-00	OSCILLATOR, CERAMIC
X002	1-527-590-00	VIBRATOR, CRYSTAL

****

♦:A-1301-318-A	M BAORD, COMPLETE	
	**********	
♦:1-533-146-00	HOLDER, FUSE	
1-536-354-00	POST PIN	

CONNECTOR

M1 ♦:1-508-786-00	2P PLUG (M)	
M2 1-506-348-XX	3P PLUG (L)	

CAPACITOR

C201	1-102-111-00	CERAMIC	270PF	10%	50V

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M

Ref.No	Part No	Description			Remark
C202	1-102-114-00	CERAMIC	470PF	10%	50V
C203	1-102-110-00	CERAMIC	220PF	10%	50V
C204	1-102-110-00	CERAMIC	220PF	10%	50V
C205	1-102-110-00	CERAMIC	220PF	10%	50V
C206	1-101-004-00	CERAMIC	0.01MF		50V
C207	1-101-004-00	CERAMIC	0.01MF		50V
C208	1-123-333-00	ELECT	100MF	20%	16V
C209	1-108-382-00	MYLAR	0.027MF	10%	100V
C210	1-108-382-00	MYLAR	0.027MF	10%	100V
C211	1-101-004-00	CERAMIC	0.01MF		50V
C212	1-123-318-00	ELECT	33MF	20%	16V
C213	1-232-019-00	COMPOSITION CIRCUIT BLOCK 220PX3			
C214	1-123-380-00	ELECT	1MF	20%	50V
C215	1-123-380-00	ELECT	1MF	20%	50V
C216	1-123-318-00	ELECT	33MF	20%	16V
C217	1-101-888-00	CERAMIC	68PF	5%	50V
C218	1-123-324-00	ELECT	1000MF	20%	16V
C219	1-108-377-00	MYLAR	0.01MF	10%	100V
C220	1-108-381-00	MYLAR	0.022MF	10%	100V
C221	1-108-381-00	MYLAR	0.022MF	10%	100V
C222	1-123-333-00	ELECT	100MF	20%	16V
C223	1-108-381-00	MYLAR	0.022MF	10%	100V
C224	1-123-328-00	ELECT	4.7MF	20%	25V
C225	1-123-328-00	ELECT	4.7MF	20%	25V
C226	1-101-004-00	CERAMIC	0.01MF		50V
C227	1-123-308-00	ELECT	220MF	20%	10V
C228	1-101-004-00	CERAMIC	0.01MF		50V
C229	1-102-112-00	CERAMIC	330PF	10%	50V
C230	1-102-112-00	CERAMIC	330PF	10%	50V
C231	1-232-172-00	COMPOSITION CIRCUIT BLOCK 470PX6			
C232	1-123-334-00	ELECT	220MF	20%	25V
C233	1-123-331-00	ELECT	33MF	20%	25V
C234	1-123-321-00	ELECT	220MF	20%	16V
C235	1-123-379-00	ELECT	0.47MF	20%	50V
C236	1-123-328-00	ELECT	4.7MF	20%	25V
C237	1-108-377-00	MYLAR	0.01MF	10%	100V
C238	1-123-356-00	ELECT	10MF	20%	16V
C239	1-123-381-00	ELECT	2.2MF	20%	50V
C240	1-123-356-00	ELECT	10MF	20%	16V
C241	1-123-356-00	ELECT	10MF	20%	16V
C242	1-123-381-00	ELECT	2.2MF	20%	50V
C243	1-123-381-00	ELECT	2.2MF	20%	50V
C244	1-108-383-00	MYLAR	0.033MF	10%	100V
C245	1-108-365-00	MYLAR	0.001MF	10%	100V
C246	1-123-380-00	ELECT	1MF	20%	50V
C247	1-123-380-00	ELECT	1MF	20%	50V
C248	1-123-380-00	ELECT	1MF	20%	50V
C249	1-123-380-00	ELECT	1MF	20%	50V
C250	1-108-365-00	MYLAR	0.001MF	10%	100V
C251	1-108-383-00	MYLAR	0.033MF	10%	100V
C252	1-101-004-00	CERAMIC	0.01MF		50V
C253	1-123-332-00	ELECT	47MF	20%	16V
C254	1-123-306-00	ELECT	47MF	20%	10V

Ref.No	Part No	Description			Remark
C255	1-123-356-00	ELECT	10MF	20%	16V
C256	1-123-356-00	ELECT	10MF	20%	16V
C257	1-123-356-00	ELECT	10MF	20%	50V
C258	1-123-356-00	ELECT	10MF	20%	50V
C259	1-123-306-00	ELECT	47MF	20%	10V
C260	1-101-004-00	CERAMIC	0.01MF		50V
C261	1-123-308-00	ELECT	220MF	20%	10V
C262	1-123-308-00	ELECT	220MF	20%	10V
C263	1-123-324-00	ELECT	1000MF	20%	16V
C264	1-123-324-00	ELECT	1000MF	20%	16V
C265	1-123-324-00	ELECT	1000MF	20%	16V
C266 ⚠	1-161-748-00	CERAMIC	0.0047MF		125V
C267	1-161-748-00	CERAMIC	0.0047MF		125V
C268	1-161-748-00	CERAMIC	0.0047MF		125V
C269	1-161-748-00	CERAMIC	0.0047MF		125V
C270 ⚠	1-161-748-00	CERAMIC	0.0047MF		125V
C271	1-123-337-00	ELECT	1000MF	20%	25V
C272	1-123-318-00	ELECT	33MF	20%	16V
C273	1-102-121-00	CERAMIC	0.0022MF	10%	50V
C274	1-101-004-00	CERAMIC	0.01MF		50V
C275	1-123-380-00	ELECT	1MF	20%	50V
C276	1-102-121-00	CERAMIC	0.0022MF	10%	50V
C277	1-123-322-00	ELECT	330MF	20%	16V
C278	1-101-004-00	CERAMIC	0.01MF		50V
C279	1-123-318-00	ELECT	33MF	20%	16V
C280	1-102-121-00	CERAMIC	0.0022MF	10%	50V
C281	1-123-333-00	ELECT	100MF	20%	16V
C282	1-101-004-00	CERAMIC	0.01MF		50V
C283	1-101-004-00	CERAMIC	0.01MF		50V

DIODE

D201	8-719-101-76	DIODE	RD10EL2
D202	8-719-911-19	DIODE	1SS119
D203	8-719-911-19	DIODE	1SS119
D204	8-719-911-19	DIODE	1SS119
D205	8-719-911-19	DIODE	1SS119
D206	8-719-911-19	DIODE	1SS119
D207	8-719-911-19	DIODE	1SS119
D208	8-719-911-19	DIODE	1SS119
D209	8-719-911-19	DIODE	1SS119
D210	8-719-911-19	DIODE	1SS119
D211	8-719-911-19	DIODE	1SS119
D212	8-719-911-19	DIODE	1SS119
D213	8-719-100-59	DIODE	RD10EC
D214	8-719-911-19	DIODE	1SS119
D215	8-719-911-19	DIODE	1SS119
D216	8-719-911-19	DIODE	1SS119
D217	8-719-911-19	DIODE	1SS119
D218	8-719-911-19	DIODE	1SS119
D219	8-719-911-19	DIODE	1SS119
D220	8-719-911-19	DIODE	1SS119
D221	8-719-911-19	DIODE	1SS119
D222	8-719-911-19	DIODE	1SS119

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M

Ref.No	Part No	Description	Remark
D223	8-719-911-19	DIODE 1SS119	
D224	8-719-101-37	DIODE RD3.3EL2	
D225	8-719-103-06	DIODE RD13EN2	
D226	8-719-911-19	DIODE 1SS119	
D227	8-719-911-19	DIODE 1SS119	
D228	8-719-911-19	DIODE 1SS119	
D229	8-719-911-19	DIODE 1SS119	
D230	8-719-911-19	DIODE 1SS119	
D231	8-719-911-19	DIODE 1SS119	
D232	8-719-911-19	DIODE 1SS119	
D233	8-719-911-19	DIODE 1SS119	
D234	=>8-719-900-93	DIODE V09C	
D235	=>8-719-911-55	DIODE U05G	
D236	=>8-719-911-55	DIODE U05G	
D237	=>8-719-911-55	DIODE U05G	
D238	=>8-719-911-55	DIODE U05G	
D239	8-719-102-75	DIODE RD6.2EN3	
D240	8-719-911-19	DIODE 1SS119	
		FUSE	
F201 ⚠	1-532-555-00	FUSE, GLASS TUBE 1.6A	
		IC	
IC201	8-759-162-36	IC UPD546C236	
IC202	8-759-240-27	IC TC4027BP	
IC203	8-759-240-81	IC TC4081BP	
IC204	8-759-907-86	IC CX786	
IC205	8-759-918-75	IC CX875A	
IC206	8-759-240-52	IC TC4052BP	
		COIL	
L201	1-408-398-00	MICRO INDUCTOR 1.2UH	
L202	1-408-398-00	MICRO INDUCTOR 1.2UH	
L203	1-408-398-00	MICRO INDUCTOR 1.2UH	
L204	1-408-398-00	MICRO INDUCTOR 1.2UH	
		CONNECTOR	
M4	♦:1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P	
M5	♦:1-560-127-00	PLUG, CONNECTOR (2.5MM) 7P	
M6	♦:1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P	
M7	♦:1-560-126-00	PLUG, CONNECTOR (2.5MM) 6P	
M8	♦:1-560-126-00	PLUG, CONNECTOR (2.5MM) 6P	
M9	♦:1-560-125-00	PLUG, CONNECTOR (2.5MM) 5P	
M10	♦:1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P	
M11	♦:1-560-124-00	PLUG, CONNECTOR (2.5MM) 4P	
M12	♦:1-560-124-00	PLUG, CONNECTOR (2.5MM) 4P	
M13	♦:1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P	
M14	♦:1-560-125-00	PLUG, CONNECTOR (2.5MM) 5P	
M15	♦:1-560-125-00	PLUG, CONNECTOR (2.5MM) 5P	
M16	♦:1-560-124-00	PLUG, CONNECTOR (2.5MM) 4P	
M17	♦:1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P	
M18	♦:1-560-125-00	PLUG, CONNECTOR (2.5MM) 5P	
M19	♦:1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P	
M20	♦:1-560-127-00	PLUG, CONNECTOR (2.5MM) 7P	
M21	♦:1-560-126-00	PLUG, CONNECTOR (2.5MM) 6P	
M22	♦:1-560-125-00	PLUG, CONNECTOR (2.5MM) 5P	
M23	♦:1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P	
M24	♦:1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P	
		NEON LAMP	
NL201	1-519-237-11	LAMP, NEON	
		TRANSISTOR	
Q201	=>8-729-178-54	TRANSISTOR 2SC2785	
Q202	=>8-729-178-54	TRANSISTOR 2SC2785	
Q203	=>8-729-178-54	TRANSISTOR 2SC2785	
Q204	=>8-729-178-54	TRANSISTOR 2SC2785	
Q205	=>8-729-178-54	TRANSISTOR 2SC2785	
Q206	=>8-729-178-54	TRANSISTOR 2SC2785	
Q207	=>8-729-178-54	TRANSISTOR 2SC2785	
Q208	=>8-729-178-54	TRANSISTOR 2SC2785	
Q209	=>8-729-178-54	TRANSISTOR 2SC2785	
Q210	=>8-729-178-54	TRANSISTOR 2SC2785	
Q211	=>8-729-178-54	TRANSISTOR 2SC2785	
Q212	=>8-729-178-54	TRANSISTOR 2SC2785	
Q213	=>8-729-178-54	TRANSISTOR 2SC2785	
Q214	=>8-729-178-54	TRANSISTOR 2SC2785	
Q215	=>8-729-177-43	TRANSISTOR 2SD774	
Q216	=>8-729-178-54	TRANSISTOR 2SC2785	
Q217	=>8-729-178-54	TRANSISTOR 2SC2785	
Q218	=>8-729-178-54	TRANSISTOR 2SC2785	
Q219	=>8-729-178-54	TRANSISTOR 2SC2785	
Q220	=>8-729-178-54	TRANSISTOR 2SC2785	
Q221	=>8-729-178-54	TRANSISTOR 2SC2785	
Q222	=>8-729-178-54	TRANSISTOR 2SC2785	
Q223	=>8-729-178-54	TRANSISTOR 2SC2785	
Q224	=>8-729-178-54	TRANSISTOR 2SC2785	
Q225	=>8-729-178-54	TRANSISTOR 2SC2785	
Q226	=>8-729-178-54	TRANSISTOR 2SC2785	
Q227	=>8-729-178-54	TRANSISTOR 2SC2785	
Q228	=>8-729-178-54	TRANSISTOR 2SC2785	
Q229	=>8-729-178-54	TRANSISTOR 2SC2785	
Q230	=>8-729-178-54	TRANSISTOR 2SC2785	
Q231	=>8-729-178-54	TRANSISTOR 2SC2785	
Q232	=>8-729-178-54	TRANSISTOR 2SC2785	
Q233	=>8-729-178-54	TRANSISTOR 2SC2785	
Q234	=>8-729-178-54	TRANSISTOR 2SC2785	
Q235	=>8-729-178-54	TRANSISTOR 2SC2785	
Q236	=>8-729-178-54	TRANSISTOR 2SC2785	
Q237	=>8-729-178-54	TRANSISTOR 2SC2785	
Q238	=>8-729-178-54	TRANSISTOR 2SC2785	
Q239	8-729-663-47	TRANSISTOR 2SC1364	
Q240	=>8-729-178-54	TRANSISTOR 2SC2785	
Q241	=>8-729-178-54	TRANSISTOR 2SC2785	

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- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS
- MF : μF, PF : μμF

RESISTORS
- All resistors are in ohms
- F : nonflammable

COILS
- MMH : mH, UH : μH

M

Ref.No	Part No	Description	Remark
Q301	=>8-729-117-54	TRANSISTOR 2SA1175	
Q302	=>8-729-117-54	TRANSISTOR 2SA1175	
Q303	=>8-729-117-54	TRANSISTOR 2SA1175	
Q304	=>8-729-117-54	TRANSISTOR 2SA1175	
Q305	8-729-201-32	TRANSISTOR 2SA1013	
Q306	=>8-729-117-54	TRANSISTOR 2SA1175	
Q307	=>8-729-117-54	TRANSISTOR 2SA1175	
Q308	=>8-729-117-54	TRANSISTOR 2SA1175	
Q309	=>8-729-117-54	TRANSISTOR 2SA1175	
Q310	=>8-729-117-54	TRANSISTOR 2SA1175	
Q311	=>8-729-117-54	TRANSISTOR 2SA1175	

RESISTOR

Ref.No	Part No	Description		Remark
R201	1-247-049-00	CARBON	470K 1/8W	
R202	1-231-569-00	COMPOSITION CIRCUIT BLOCK	22KX4	
R203	1-246-789-00	CARBON	3.3K 1/8W	
R204	1-246-789-00	CARBON	3.3K 1/8W	
R205	1-246-789-00	CARBON	3.3K 1/8W	
R206	1-231-569-00	COMPOSITION CIRCUIT BLOCK	22KX4	
R207	1-246-799-00	CARBON	22K 1/8W	
R208	1-247-054-00	CARBON	240K 1/8W	
R209	1-246-785-00	CARBON	1.5K 1/8W	
R210	1-246-795-00	CARBON	10K 1/8W	
R211	1-246-799-00	CARBON	22K 1/8W	
R212	1-246-799-00	CARBON	22K 1/8W	
R213	1-246-799-00	CARBON	22K 1/8W	
R214	1-246-789-00	CARBON	3.3K 1/8W	
R215	1-246-789-00	CARBON	3.3K 1/8W	
R216	1-246-789-00	CARBON	3.3K 1/8W	
R217	1-246-789-00	CARBON	3.3K 1/8W	
R218	1-246-807-00	CARBON	100K 1/8W	
R219	1-246-807-00	CARBON	100K 1/8W	
R220	1-246-807-00	CARBON	100K 1/8W	
R221	1-246-807-00	CARBON	100K 1/8W	
R222	1-246-783-00	CARBON	1K 1/8W	
R223	1-246-799-00	CARBON	22K 1/8W	
R224	1-246-789-00	CARBON	3.3K 1/8W	
R225	1-246-795-00	CARBON	10K 1/8W	
R226	1-246-795-00	CARBON	10K 1/8W	
R227	1-231-849-00	COMPOSITION CIRCUIT BLOCK	100KX6	
R228	1-246-789-00	CARBON	3.3K 1/8W	
R229	1-246-789-00	CARBON	3.3K 1/8W	
R230	1-246-789-00	CARBON	3.3K 1/8W	
R231	1-246-789-00	CARBON	3.3K 1/8W	
R232	1-246-795-00	CARBON	10K 1/8W	
R233	1-246-799-00	CARBON	22K 1/8W	
R234	1-246-791-00	CARBON	4.7K 1/8W	
R235	1-246-799-00	CARBON	22K 1/8W	
R236	1-246-783-00	CARBON	1K 1/8W	
R237	1-246-771-00	CARBON	100 1/8W	
R238	1-246-799-00	CARBON	22K 1/8W	
R239	1-246-799-00	CARBON	22K 1/8W	
R240	1-246-795-00	CARBON	10K 1/8W	

Ref.No	Part No	Description			Remark
R241	1-246-795-00	CARBON	10K	1/8W	
R242	1-246-795-00	CARBON	10K	1/8W	
R243	1-246-786-00	CARBON	1.8K	1/8W	
R244	1-246-795-00	CARBON	10K	1/8W	
R245	1-246-795-00	CARBON	10K	1/8W	
R246	1-246-795-00	CARBON	10K	1/8W	
R247	1-246-786-00	CARBON	1.8K	1/8W	
R248	1-246-783-00	CARBON	1K	1/8W	
R249	1-246-783-00	CARBON	1K	1/8W	
R250	1-211-427-00	CARBON	100 5%	1/8W	F
R251	1-246-799-00	CARBON	22K	1/8W	
R252	1-246-803-00	CARBON	47K	1/8W	
R253	1-246-799-00	CARBON	22K	1/8W	
R254	1-246-860-00	CARBON	24K	1/8W	
R255	1-246-860-00	CARBON	24K	1/8W	
R256	1-246-767-00	CARBON	47	1/8W	
R257	1-246-803-00	CARBON	47K	1/8W	
R258	1-246-777-00	CARBON	330	1/8W	
R259	1-246-804-00	CARBON	56K	1/8W	
R260	1-246-779-00	CARBON	470	1/8W	
R261	1-246-770-00	CARBON	82	1/8W	
R262	1-246-767-00	CARBON	47	1/8W	
R263	1-246-807-00	CARBON	100K	1/8W	
R265	1-246-791-00	CARBON	4.7K	1/8W	
R266	1-246-784-00	CARBON	1.2K	1/8W	
R267	1-246-793-00	CARBON	6.8K	1/8W	
R268	1-246-791-00	CARBON	4.7K	1/8W	
R269	1-246-792-00	CARBON	5.6K	1/8W	
R270	1-246-792-00	CARBON	5.6K	1/8W	
R271	1-246-779-00	CARBON	470	1/8W	
R272	1-246-767-00	CARBON	47	1/8W	
R273	1-246-803-00	CARBON	47K	1/8W	
R274	1-246-803-00	CARBON	47K	1/8W	
R275	1-246-803-00	CARBON	47K	1/8W	
R277	1-246-799-00	CARBON	22K	1/8W	
R278	1-246-799-00	CARBON	22K	1/8W	
R279	1-246-795-00	CARBON	10K	1/8W	
R280	1-246-799-00	CARBON	22K	1/8W	
R281	1-246-795-00	CARBON	10K	1/8W	
R282	1-246-790-00	CARBON	3.9K	1/8W	
R283	1-246-807-00	CARBON	100K	1/8W	
R284	1-247-048-00	CARBON	390K	1/8W	
R285	1-246-807-00	CARBON	100K	1/8W	
R286	1-246-807-00	CARBON	100K	1/8W	
R287	1-247-048-00	CARBON	390K	1/8W	
R288	1-246-807-00	CARBON	100K	1/8W	
R289	1-246-799-00	CARBON	22K	1/8W	
R290	1-246-807-00	CARBON	100K	1/8W	
R291	1-246-799-00	CARBON	22K	1/8W	
R292	1-246-799-00	CARBON	22K	1/8W	
R293	1-246-795-00	CARBON	10K	1/8W	
R294	1-247-046-00	CARBON	270K	1/8W	
R295	1-246-807-00	CARBON	100K	1/8W	

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COILS
- MMH : mH, UH : μH

M

Ref.No	Part No	Description				Remark
R296	1-246-789-00	CARBON	3.3K		1/8W	
R297	1-246-789-00	CARBON	3.3K		1/8W	
R298	1-246-789-00	CARBON	3.3K		1/8W	
R299	1-246-789-00	CARBON	3.3K		1/8W	
R300	1-246-789-00	CARBON	3.3K		1/8W	
R301	1-246-789-00	CARBON	3.3K		1/8W	
R302	1-246-783-00	CARBON	1K		1/8W	
R303	1-212-376-00	METAL	22	5%	1W	F
R304	1-211-427-00	CARBON	100	5%	1/8W	F
R305	1-246-785-00	CARBON	1.5K		1/8W	
R306	1-246-807-00	CARBON	100K		1/8W	
R307	1-246-807-00	CARBON	100K		1/8W	
R308	1-246-799-00	CARBON	22K		1/8W	
R309	1-246-807-00	CARBON	100K		1/8W	
R310	1-246-807-00	CARBON	100K		1/8W	
R311	1-246-799-00	CARBON	22K		1/8W	
R312	1-246-799-00	CARBON	22K		1/8W	
R313	1-246-805-00	CARBON	68K		1/8W	
R314	1-246-767-00	CARBON	47		1/8W	
R315	1-246-799-00	CARBON	22K		1/8W	
R316	1-246-799-00	CARBON	22K		1/8W	
R317	1-246-807-00	CARBON	100K		1/8W	
R318	1-246-801-00	CARBON	33K		1/8W	
R319	1-246-801-00	CARBON	33K		1/8W	
R320	1-246-771-00	CARBON	100		1/8W	
R321	1-246-791-00	CARBON	4.7K		1/8W	
R322	1-246-783-00	CARBON	1K		1/8W	
R323	1-246-795-00	CARBON	10K		1/8W	
R324	1-246-791-00	CARBON	4.7K		1/8W	
R325	1-246-795-00	CARBON	10K		1/8W	
R326	1-246-793-00	CARBON	6.8K		1/8W	
R327	1-246-789-00	CARBON	3.3K		1/8W	
R328	1-246-792-00	CARBON	5.6K		1/8W	
R329	1-246-790-00	CARBON	3.9K		1/8W	
R330	1-246-801-00	CARBON	33K		1/8W	
R331	1-246-790-00	CARBON	3.9K		1/8W	
R332	1-246-801-00	CARBON	33K		1/8W	
R333	1-246-799-00	CARBON	22K		1/8W	
R334	1-246-799-00	CARBON	22K		1/8W	
R335	1-246-783-00	CARBON	1K		1/8W	
R336	1-246-783-00	CARBON	1K		1/8W	
R337	1-246-795-00	CARBON	10K		1/8W	
R338	1-246-783-00	CARBON	1K		1/8W	
R339	1-246-783-00	CARBON	1K		1/8W	
R340	1-246-783-00	CARBON	1K		1/8W	
R341	1-246-783-00	CARBON	1K		1/8W	
R342	1-246-799-00	CARBON	22K		1/8W	
R343	1-246-799-00	CARBON	22K		1/8W	
R344	1-246-771-00	CARBON	100		1/8W	
R345	1-246-771-00	CARBON	100		1/8W	
R346	1-246-795-00	CARBON	10K		1/8W	
R347	1-246-795-00	CARBON	10K		1/8W	
R349	1-246-783-00	CARBON	1K		1/8W	

Ref.No	Part No	Description				Remark
R351	1-246-771-00	CARBON	100		1/8W	
R352	1-246-771-00	CARBON	100		1/8W	
R353	1-246-771-00	CARBON	100		1/8W	
R354	1-232-170-00	COMPOSITION CIRCUIT BLOCK	4.7KX4			
R355	1-246-785-00	CARBON	1.5K		1/8W	
R356	1-246-785-00	CARBON	1.5K		1/8W	
R357	1-246-785-00	CARBON	1.5K		1/8W	
R358	1-246-785-00	CARBON	1.5K		1/8W	
R359	1-246-805-00	CARBON	68K		1/8W	
R360	1-246-804-00	CARBON	56K		1/8W	
R361	1-246-782-00	CARBON	820		1/8W	
R362	1-246-787-00	CARBON	2.2K		1/8W	
R363	1-246-850-00	CARBON	36K		1/8W	
R364	1-246-783-00	CARBON	1K		1/8W	
R365	1-246-851-00	CARBON	4.3K		1/8W	
R366	1-246-805-00	CARBON	68K		1/8W	
R367	1-246-804-00	CARBON	56K		1/8W	
R368	1-246-782-00	CARBON	820		1/8W	
R369	1-246-787-00	CARBON	2.2K		1/8W	
R370	1-246-850-00	CARBON	36K		1/8W	
R371	1-246-783-00	CARBON	1K		1/8W	
R372	1-246-851-00	CARBON	4.3K		1/8W	
R373	1-246-771-00	CARBON	100		1/8W	
R374	1-246-771-00	CARBON	100		1/8W	
R375	1-246-771-00	CARBON	100		1/8W	
R376	1-246-461-00	CARBON	330	5%	1/4W	
R377	1-246-461-00	CARBON	330	5%	1/4W	
R378	1-246-461-00	CARBON	330	5%	1/4W	
R379	1-213-129-00	METAL	68	5%	1W	F
R380	1-246-795-00	CARBON	10K		1/8W	
R381	1-246-795-00	CARBON	10K		1/8W	
R382	1-246-807-00	CARBON	100K		1/8W	
R383	1-246-789-00	CARBON	3.3K		1/8W	
R384	1-246-793-00	CARBON	6.8K		1/8W	
R385	1-246-793-00	CARBON	6.8K		1/8W	
R386	1-246-783-00	CARBON	1K		1/8W	
R387	1-246-783-00	CARBON	1K		1/8W	
R388	1-214-148-00	METAL	4.7K	1%	1/4W	
R389	1-214-151-00	METAL	6.2K	1%	1/4W	
R390	1-246-783-00	CARBON	1K		1/8W	
R391	1-246-783-00	CARBON	1K		1/8W	
R392	1-246-783-00	CARBON	1K		1/8W	
R393	1-246-770-00	CARBON	82		1/8W	
R394	1-246-789-00	CARBON	3.3K		1/8W	
R395	1-246-787-00	CARBON	2.2K		1/8W	
R396 ⚠	1-202-724-00	COMPOSITION	2.7M	10%	1/2W	
R397	1-246-783-00	CARBON	1K		1/8W	

RELAY

RL201 ⚠	1-515-357-00	RELAY	

NOTE:

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- =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.
- Items marked " ♦ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS
- MF : μF, PF : μμF

RESISTORS
- All resistors are in ohms
- F : nonflammable

COILS
- MMH : mH, UH : μH

Ref.No	Part No	Description			Remark
		TRANSFORMER			
T201	1-231-726-00	FILTER, LOWPASS L.P.F			
		CRYSTAL			
X201	1-527-532-00	OSCILLATOR, CERAMIC			
X202	1-527-476-00	OSCILLATOR, CERAMIC			
**********					
	♣:1-606-201-00	S1 BOARD ********			
		CAPACITOR			
C601	1-123-318-00	ELECT	33MF	20% 16V	
C602	1-123-356-00	ELECT	10MF	20% 25V	
C603	1-108-389-00	MYLAR	0.1MF	10% 100V	
C604	1-108-382-00	MYLAR	0.027MF	10% 100V	
C605	1-108-389-00	MYLAR	0.1MF	10% 100V	
C606	1-108-389-00	MYLAR	0.1MF	10% 100V	
C607	1-123-356-00	ELECT	10MF	20% 25V	
C608	1-123-324-00	ELECT	1000MF	20% 16V	
		COIL			
L601	1-409-315-00	COIL 100MH			
L602	1-409-315-00	COIL 100MH			
		RESISTOR			
R601	1-246-783-00	CARBON	1K	1/8W	
R602	1-246-783-00	CARBON	1K	1/8W	
		CONNECTOR			
S1	♣:1-560-128-00	PLUG, CONNECTOR (2.5MM PITCH)			
S2	♣:1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)			
**********					
	♣:1-606-202-00	S2 BOARD ********			
		CAPACITOR			
C609	1-101-004-00	CERAMIC	0.01MF	50V	
C610	1-123-318-00	ELECT	33MF	20% 16V	
**********					
	♣:1-606-203-00	S3 BOARD ********			
		COIL			
L603	1-408-403-00	MICRO IN DUCTOR 3.3UH			
		CAPACITOR			
C611	1-121-705-00	ELECT	2.2MF	30% 25V	

Ref.No	Part No	Description			Remark
C612	1-121-705-00	ELECT	2.2MF	30% 25V	
C613	1-121-257-00	ELECT	4.7MF	16V	
C614	1-121-257-00	ELECT	4.7MF	16V	
		DIODE			
D601	8-719-911-19	DIODE 1SS119			
D602	8-719-911-19	DIODE 1SS119			
D603	8-719-911-19	DIODE 1SS119			
D604	8-719-911-19	DIODE 1SS119			
		COIL			
L604	1-407-364-00	COIL, SPOOK CHOKE 3.3UH			
L605	1-407-364-00	COIL, SPOOK CHOKE 3.3UH			
		TRANSISTOR			
Q601	8-729-178-54	TRANSISTOR 2SC2785			
Q602	8-729-117-54	TRANSISTOR 2SA1175			
		RESISTOR			
R603	1-246-803-00	CARBON	47K	1/8W	
R604	1-246-803-00	CARBON	47K	1/8W	
R605	1-246-799-00	CARBON	22K	1/8W	
R606	1-246-795-00	CARBON	10K	1/8W	
R607	1-246-811-00	CARBON	220K	1/8W	
		CONNECTOR			
S3	♣:1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P			
**********					
	♣:1-606-204-00	H1 BOARD ********			
	♣:1-555-962-00	CONNECTOR ASSY (2.5MM) 12P			
	♣:1-555-963-00	CONNECTOR ASSY (2.5MM) 5P			
	♣:1-556-001-00	CONNECTOR ASSY (2.5MM) 6P			
	♣:3-538-856-00	PIN, LEAD			
		DIODE			
D401	8-719-812-42	DIODE TLY124			
D402	8-719-812-42	DIODE TLY124			
D403	8-719-812-42	DIODE TLY124			
D404	8-719-812-42	DIODE TLY124			
		SWITCH			
S401	1-553-329-00	SWITCH, PUSH (MONO KEY)			
S402	1-553-329-00	SWITCH, PUSH (MONO KEY)			
S403	1-553-329-00	SWITCH, PUSH (MONO KEY)			
S404	1-553-329-00	SWITCH, PUSH (MONO KEY)			
S405	1-553-329-00	SWITCH, PUSH (MONO KEY)			
S406	1-553-329-00	SWITCH, PUSH (MONO KEY)			
S407	1-553-329-00	SWITCH, PUSH (MONO KEY)			
S408	1-553-329-00	SWITCH, PUSH (MONO KEY)			

NOTE:

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- Items marked " ♣ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS
- MF : μF, PF : μμF

RESISTORS
- All resistors are in ohms
- F : nonflammable

COILS
- MMH : mH, UH : μH

H2 H3 H4 H5 HL K1

Ref.No	Part No	Description	Remark
	♦:1-606-205-00	H2 BOARD ********	
	♦:1-555-818-00	CONNECTOR ASSY (2.5MM) 4P	
	♦:1-555-963-00	CONNECTOR ASSY (2.5MM) 5P	
	♦:1-556-012-81	CONNECTOR ASSY (2.5MM) 3P	
		SWITCH	
S409	1-553-329-00	SWITCH, PUSH (MONO KEY)	
S410	1-553-329-00	SWITCH, PUSH (MONO KEY)	
S411	1-553-329-00	SWITCH, PUSH (MONO KEY)	
S412	1-553-329-00	SWITCH, PUSH (MONO KEY)	
S413	1-553-329-00	SWITCH, PUSH (MONO KEY)	
S414	1-553-329-00	SWITCH, PUSH (MONO KEY)	
S415	1-553-329-00	SWITCH, PUSH (MONO KEY)	
S416	1-553-329-00	SWITCH, PUSH (MONO KEY)	
S417	1-553-329-00	SWITCH, PUSH (MONO KEY)	
S418	1-553-329-00	SWITCH, PUSH (MONO KEY)	
S419	1-553-329-00	SWITCH, PUSH (MONO KEY)	
S420	1-553-329-00	SWITCH, PUSH (MONO KEY)	
S421	1-553-329-00	SWITCH, PUSH (MONO KEY)	
S422	1-553-329-00	SWITCH, PUSH (MONO KEY)	
**********			
	♦:1-606-206-00	H3 BOARD ********	
	♦:1-555-963-00	CONNECTOR ASSY (2.5MM) 5P	
		VARIABLE RESISTOR	
RV401	1-228-449-00	RES, VAR, CARBON 10K	
RV402	1-228-449-00	RES, VAR, CARBON 10K	
**********			
	♦:1-606-207-00	H4 BOARD ********	
	♦:1-556-012-00	CONNECTOR ASSY (2.5MM) 3P	
	♦:1-556-013-00	CONNECTOR ASSY (2.5MM) 3P	
		VARIABLE RESISTOR	
RV403	1-228-449-00	RES, VAR, CARBON 10K	
RV404	1-228-447-00	RES, VAR, CARBON 10K/10K	
**********			
	♦:1-606-208-00	H5 BOARD ********	
	♦:1-555-818-00	CONNECTOR ASSY (2.5MM) 4P	
	♦:1-556-012-00	CONNECTOR ASSY (2.5MM) 3P	
		SWICH	
S423	1-553-329-00	SWITCH, PUSH (MONO KEY)	
S424	1-552-737-00	SWITCH, PUSH	
S425	1-552-737-00	SWITCH, PUSH	
**********			
	♦:1-606-209-00	HL BOARD ********	
	♦:1-555-963-00	CONNECTOR ASSY (2.5MM) 5P	
	♦:4-337-424-00	HOLDER (L), LED	
	4-384-517-00	HOLDER, LED	
	4-384-517-00	HOLDER, LED	
		DIODE	
D405	8-719-812-41	DIODE TLR124	
D406	8-719-922-41	DIODE SLP241B	
D407	8-719-922-41	DIODE SLP241B	
**********			
	♦:1-606-210-00	K1 BOARD ********	
		CAPACITOR	
C508	1-101-004-00	CERAMIC 0.01MF 50V	
C509	1-101-004-00	CERAMIC 0.01MF 50V	
		IC	
IC501	8-759-240-52	IC TC4052BP	
		RESISTOR	
R501	1-246-826-00	CARBON 36 1/8W	
R502	1-246-766-00	CARBON 39 1/8W	
R503	1-246-826-00	CARBON 36 1/8W	
R504	1-246-766-00	CARBON 39 1/8W	
R505	1-246-777-00	CARBON 330 1/8W	
R506	1-246-776-00	CARBON 270 1/8W	
R507	1-246-770-00	CARBON 82 1/8W	
R508	1-246-811-00	CARBON 220K 1/8W	
R509	1-246-811-00	CARBON 220K 1/8W	
R510	1-246-795-00	CARBON 10K 1/8W	
R511	1-246-795-00	CARBON 10K 1/8W	
R512	1-246-811-00	CARBON 220K 1/8W	
R513	1-246-811-00	CARBON 220K 1/8W	
R514	1-246-795-00	CARBON 10K 1/8W	
R515	1-246-795-00	CARBON 10K 1/8W	
R516	1-246-811-00	CARBON 220K 1/8W	
R517	1-246-811-00	CARBON 220K 1/8W	
R518	1-246-795-00	CARBON 10K 1/8W	
R519	1-246-795-00	CARBON 10K 1/8W	
R520	1-246-789-00	CARBON 3.3K 1/8W	
R521	1-246-789-00	CARBON 3.3K 1/8W	
R522	1-246-799-00	CARBON 22K 1/8W	
R523	1-246-799-00	CARBON 22K 1/8W	
R536	1-246-783-00	CARBON 1K 1/8W	

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CAPACITORS
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- ⇒: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

RESISTORS
- All resistors are in ohms
- F : nonflammable

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COILS
- MMH : mH, UH : μH

Ref.No	Part No	Description				Remark
		VARIABLE RESISTOR				
RV501	1-228-446-00	RES, VAR, CARBON (SNAP IN) 1K				
**********						
	♦:1-606-211-00	K2 BOARD				
		********				
		CAPACITOR				
C501	1-102-074-00	CERAMIC	0.001MF	10%	50V	
C502	1-102-074-00	CERAMIC	0.001MF	10%	50V	
C503	1-102-074-00	CERAMIC	0.001MF	10%	50V	
C504	1-102-074-00	CERAMIC	0.001MF	10%	50V	
C505	1-102-074-00	CERAMIC	0.001MF	10%	50V	
C506	1-102-074-00	CERAMIC	0.001MF	10%	50V	
C507	1-102-074-00	CERAMIC	0.001MF	10%	50V	
		RESISTOR				
R524	1-246-811-00	CARBON	220K	1/8W		
R525	1-246-811-00	CARBON	220K	1/8W		
R526	1-246-791-00	CARBON	4.7K	1/8W		
R527	1-246-791-00	CARBON	4.7K	1/8W		
R528	1-246-791-00	CARBON	4.7K	1/8W		
R529	1-246-811-00	CARBON	220K	1/8W		
R530	1-246-791-00	CARBON	4.7K	1/8W		
R531	1-246-791-00	CARBON	4.7K	1/8W		
R532	1-246-791-00	CARBON	4.7K	1/8W		
R533	1-246-791-00	CARBON	4.7K	1/8W		
R534	1-246-791-00	CARBON	4.7K	1/8W		
R535	1-246-811-00	CARBON	220K	1/8W		
R536	1-246-783-00	CARBON	1K	1/8W		
R537	1-246-769-00	CARBON	68	1/8W		
R538	1-246-783-00	CARBON	1K	1/8W		
R539	1-246-769-00	CARBON	68	1/8W		
R540	1-246-769-00	CARBON	68	1/8W		
R541	1-246-783-00	CARBON	1K	1/8W		
R542	1-246-769-00	CARBON	68	1/8W		
		SWITCH				
S501	1-516-576-00	SLIDE SWITCH				
S502	1-516-576-00	SLIDE SWITCH				
**********						
	♦:1-606-212-00	Z BOARD				
		*******				
		JACK				
J701	1-507-657-00	JACK				
**********						
	♦:1-606-213-00	X BOARD				
		*******				

Ref.No	Part No	Description	Remark
		MISCELLANEOUS	
		**********	
	⚠.1-463-316-00	TUNER (BT-981)	
	⚠.1-463-344-00	TUNER (BT-858)	
	⚠.1-536-689-00	TERMINAL BOARD, ANTENNA	
	⚠.1-551-478-00	CORD, POWER	
	♦:1-555-395-00	CONNECTOR ASSY (2.5MM) 12P	
	♦:1-555-442-00	CONNECTOR ASSY (LARGE) 3P	
	♦:1-555-818-00	CONNECTOR ASSY (2.5MM) 4P	
	♦:1-555-836-00	CONNECTOR ASSY (2.5MM) 7P	
	♦:1-555-866-00	CONNECTOR ASSY (2.5MM) 8P	
	♦:1-555-956-00	CONNECTOR ASSY (2.5MM) 2P	
	♦:1-555-963-00	CONNECTOR ASSY (2.5MM) 5P	
	♦:1-556-001-00	CONNECTOR ASSY (2.5MM) 6P	
	♦:1-556-005-00	CONNECTOR, MINIATURE 2P	
	♦:1-556-012-00	CONNECTOR ASSY (2.5MM) 3P	
	♦:1-556-012-00	CONNECTOR ASSY (2.5MM) 3P	
	♦:1-556-012-71	CONNECTOR ASSY (2.5MM) 3P	
	♦:1-556-012-91	CONNECTOR ASSY (2.5MM) 3P	
	♦:1-556-013-00	CONNECTOR ASSY (2.5MM) 3P	
D801	8-719-911-19	DIODE 1SS119	
J801	⚠.1-561-347-00	OUTLET, AC	
J802	⚠.1-561-347-00	OUTLET, AC	
Q901	8-729-831-33	TRANSISTOR 2SD313HP-E	
R901	1-246-489-00	RES, CARBON 4.7K	
R902	⚠.1-206-463-00	RES, METAL OXIDE FILM 10.00	
S801	⚠.1-552-926-41	SWITCH, PUSH	
S802	1-553-262-00	SWITCH, PUSH (POWER SWITCH)	
S901	⚠.1-553-774-12	SWITCH, ANTENNA CHANGE	
T901	⚠.1-447-172-00	TRANSFORMER, POWER	

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RESISTORS
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COILS
- MMH : mH, UH : μH

ACCESSORIES AND PACKING MATERIALS

Part No	Description	Remark
1-513-379-00	CONVERTER (EAC-25)	
1-528-027-11	BATTERY, NEW SUPER (SUM-3)(NS)	
1-551-086-31	CORD, CONNECTION	
1-551-644-31	CORD, CONNECTION	
1-551-734-11	CORD, CONNECTION (RK-74A)	
1-555-259-31	CABLE, VIDEO (VK-2D)	
2-272-908-00	SPRING (B)	
3-701-623-00	BAG, POLYETHYLENE	
3-701-630-00	BAG, POLYETHYLENE	
4-309-407-04	BAG, POLYETHYLENE	
4-353-139-00	SPACER	
4-354-839-00	PANEL, SLIDE	
4-354-840-00	CASE, ACCESSORY	
4-354-841-00	CUSHION (LEFT)	
4-354-842-00	CUSHION (RIGHT)	
4-354-844-00	INDIVIDUAL CARTON (US MODEL)	
4-491-561-21	SYSTEM CONNECTIONS GUIDE	
4-491-562-01	SCHEMATIC DIAGRAM (US MODEL)	
4-493-621-21	MANUAL, INSTRUCTION (US MODEL)	
4-493-621-31	MANUAL, INSTRUCTION (CANADIAN MODEL)	
3-777-727-22	CARD, WARRANTY (US MODEL)	
4-492-621-31	CARD, WARRANTY (CANADIAN MODEL)	

NOTE:

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Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

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RESISTORS
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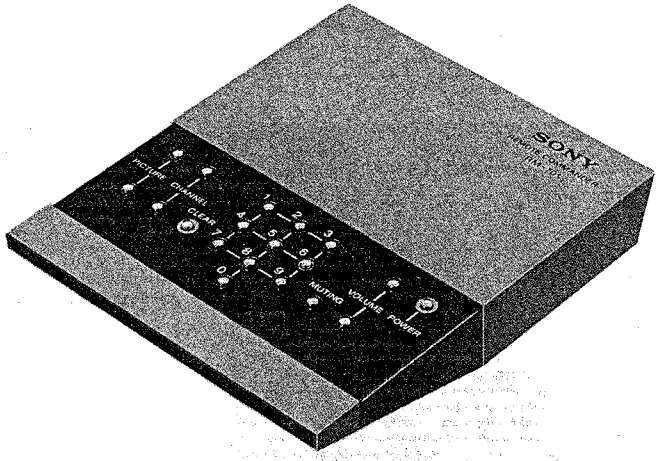
COILS
- MMH : mH, UH : μH

RM-705



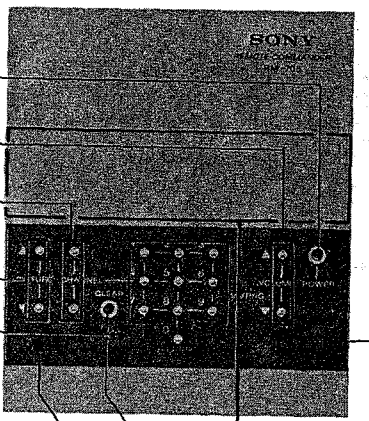
REMOTE COMMANDER

SPECIFICATIONS

Remote control system	Infrared control
Power requirements	3V dc Battery size AA × 2 (IEC Battery Designation R6)
Dimensions	Approx. 120 × 24 × 142 mm (w/h/d) ($4\frac{3}{4}$ × 1 × $5\frac{5}{8}$ inches)
Weight	Approx. 282 g (10 oz) incl. batteries.
Accessory supplied	Battery size AA 2 pcs.

Function of keys and buttons on the Remote Commander

Transmitter
Point toward the remote control detector on the TV tuner.



Keys/buttons whose functions are the same as the TV tuner panel buttons

POWER keys

VOLUME keys

CHANNEL keys

PICTURE keys

Number keys

TV/VIDEO button
Every push on the button changes the function in the following sequence.
TV→VIDEO 1→VIDEO 2→VIDEO 3
The selected function lamp on the tuner will light.

ANT/AUX button

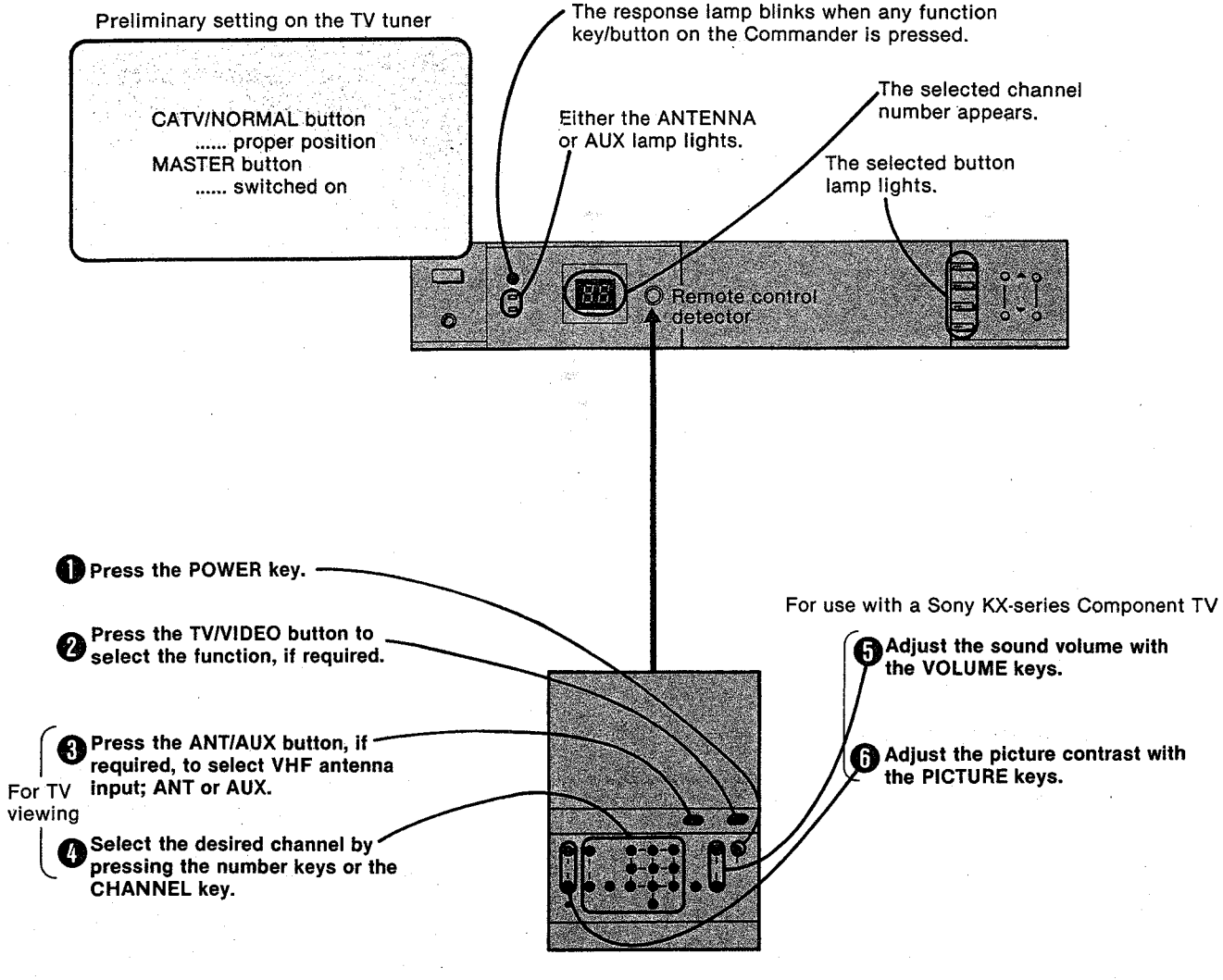
Keys which have no equivalent on the TV tuner

MUTING key
This key functions when the TV tuner is used with a Sony KX-series Component TV equipped with a control input connector.
When you want to mute the sound immediately, as for instance to answer the telephone, press this key. The MUTING lamp on the TV will light.
Sound muting will be released when the MUTING key is pressed again, the VOLUME ▲ key is pressed, or the tuner is turned off.

CLEAR key
Press this key to set the display to "––", if you select an incorrect tens-digit or forget to first select 0 for channels 2 through 9.

Indicator
This lamp lights when the Commander is operating.
If the lamp does not light when any of the function keys/buttons are pressed, battery replacement is required.

Operation of the Remote Commander

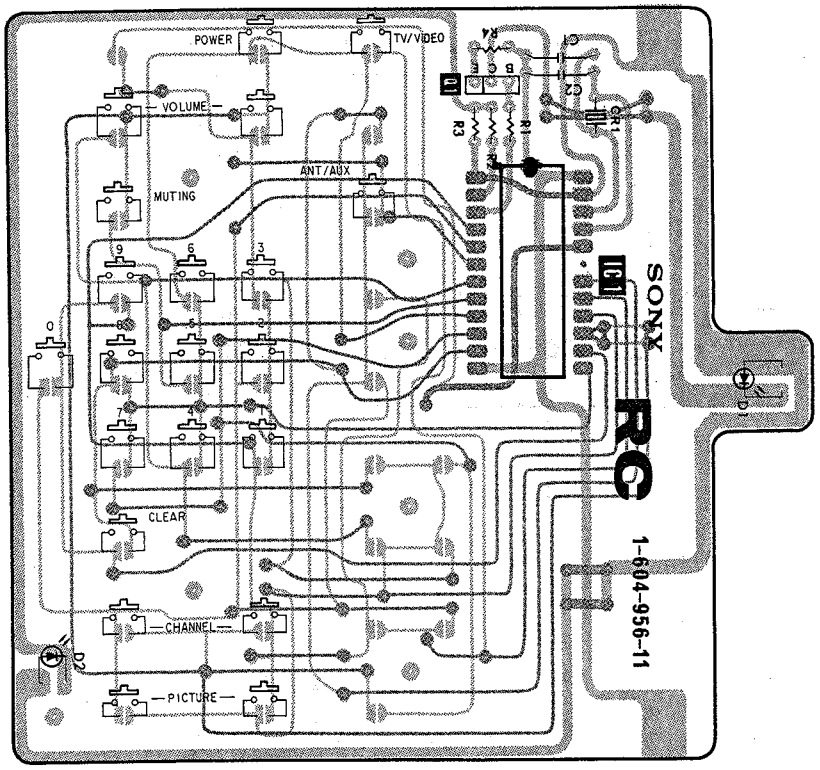

Preliminary setting on the TV tuner
CATV/NORMAL button
..... proper position
MASTER button
..... switched on
The response lamp blinks when any function key/button on the Commander is pressed.
Either the ANTENNA or AUX lamp lights.
The selected channel number appears.
The selected button lamp lights.
Remote control detector
1 Press the POWER key.
2 Press the TV/VIDEO button to select the function, if required.
For TV viewing
3 Press the ANT/AUX button, if required, to select VHF antenna input; ANT or AUX.
4 Select the desired channel by pressing the number keys or the CHANNEL key.
For use with a Sony KX-series Component TV
5 Adjust the sound volume with the VOLUME keys.
6 Adjust the picture contrast with the PICTURE keys.

Notes on the Remote Commander

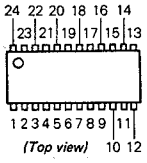
- In normal operation, battery life is up to half a year. When the battery is exhausted, the Commander will not operate the TV tuner properly. In this case, replace the batteries with new ones.
- When the Commander is not used for a long period of time, remove the batteries to avoid damage from possible battery leakage.
- Keep the Commander away from extremely hot or humid places.
- Avoid dropping any foreign objects into the Commander case when replacing batteries.
- To avoid a malfunction, do not simultaneously depress two or more buttons.
- The RM-705 Commander may be used only with those Sony models indicated in the operating instructions.

2. MOUNTING DIAGRAM

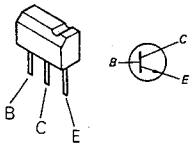
– Conductor Side –



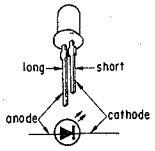
CX786



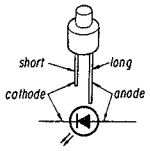
2SC1652



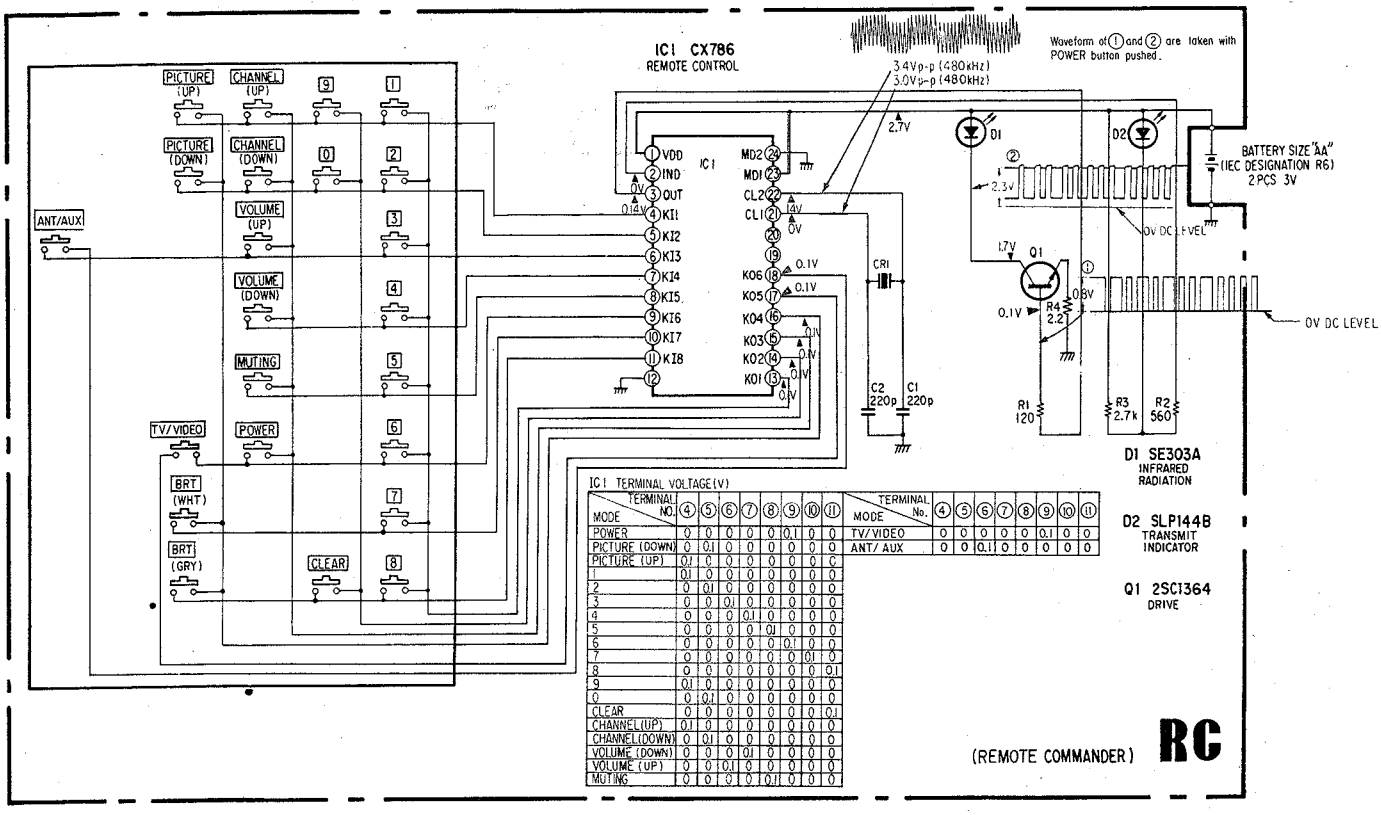
SE303AX



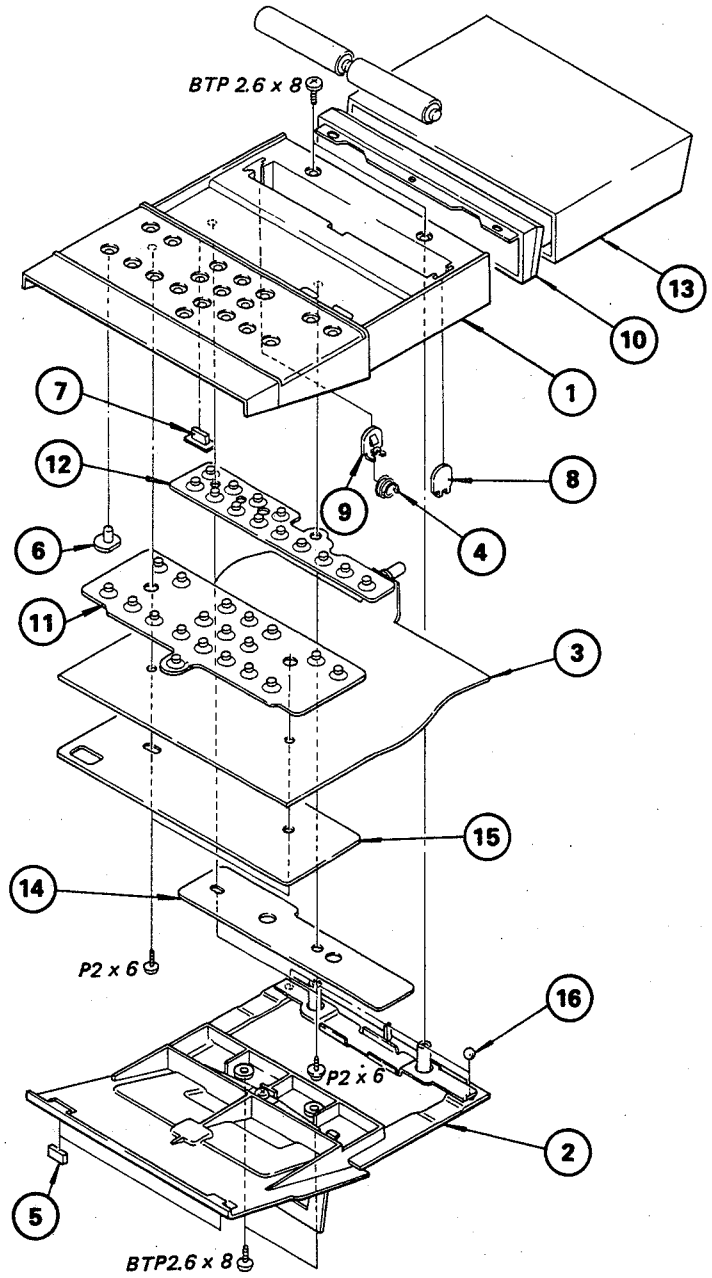
SLP144B



3. SCHEMATIC DIAGRAM



5. EXPLODED VIEW



No.	Part No	Description	Remark
1	X-4354-805-0	CASE ASSY, UPPER	
2	X-4352-014-0	CASE ASSY, LOWER	
3	♦:1-604-956-00	RC BOARD	
4	2-272-908-00	SPRING (B)	
5	4-352-044-00	FOOT, RUBBER	
6	4-352-045-00	KEY TOP (A), TUNING	
7	4-352-046-00	KEY TOP (B), TUNING	
8	4-352-048-00	TERMINAL(A), BATTERY	
9	4-352-049-00	TERMINAL(B), BATTERY	
10	4-352-054-00	PLATE, FROSTED	
11	4-352-055-00	SHEET (A), RUBBER	
12	4-352-056-00	SHEET (B), RUBBER	
13	4-354-839-00	PANEL, SLIDE	
14	4-352-062-00	SPACER (B)	
15	4-352-063-00	SPACER (A)	
16	7-671-156-01	BALL, STENLESS	

NOTE:
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- As to the part numbered with E-, refer to the electrical parts list.
- Items marked " ♦ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

6. ELECTRICAL PARTS LIST

Ref.No	Part No	Description			Remark
♦	1-604-956-00	RC BOARD ********			
	4-352-048-00	TERMINAL (A), BATTERY			
	4-352-049-00	TERMINAL (B), BATTERY			
		CAPACITOR			
C1	1-161-315-00	CERAMIC	220PF	10% 50V	
C2	1-161-315-00	CERAMIC	220PF	10% 50V	
		CRYSTAL			
CR1	1-527-476-00	OSCILLATOR, CERAMIC			
		DIODE			
D1	8-719-193-03	DIODE SE303AX			
D2	8-719-901-44	DIODE SLP144B			
		IC			
IC1	8-759-907-86	IC CX-786			
		TRANSISTOR			
Q1	8-729-965-22	TRANSISTOR 2SC1652-P			
		RESISTOR			
R1	1-246-772-00	CARBON	120	5% 1/8W	
R2	1-246-780-00	CARBON	560	5% 1/8W	
R3	1-246-788-00	CARBON	2.7K	5% 1/8W	
R4	1-246-751-00	CARBON	2.2	5% 1/8W	

PACKING MATERIALS

4-493-627-21 MANUAL, INSTRUCTION
4-354-848-00 INDIVIDUAL CARTON

NOTE:

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.
- Items marked " ♦ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS
- MF : μF, PF : μμF

RESISTORS
- All resistors are in ohms
- F : nonflammable

COILS
- MMH : mH, UH : μH

STANDARD PARTS LIST

ELECTROLYTIC CAPACITORS

CAP. (μF)	RATING → : Use the high voltage rated one.						
	6.3 VOLT.	10 VOLT.	16 VOLT.	25 VOLT.	35 VOLT.	50 VOLT.	63 VOLT.
	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.
0.47						→	→
1.0						→	→
2.2						→	→
3.3						→	→
4.7				→	→	→	1-123-369-00
10			→	→	→	1-123-356-00	1-123-370-00
22			→	1-123-330-00	→	1-123-357-00	1-123-371-00
33	→	→	1-123-318-00	→	1-123-343-00	→	1-123-372-00
47	→	1-123-306-00	→	1-123-332-00	→	1-123-359-00	1-123-373-00
100	→	1-123-307-00	→	1-123-333-00	1-123-345-00	1-123-360-00	1-123-374-00
220	→	1-123-308-00	1-123-321-00	1-123-334-00	1-123-346-00	1-123-361-00	1-123-375-00
330	→	1-123-309-00	1-123-322-00	1-123-335-00	1-123-347-00	1-123-362-00	1-123-376-00
470	1-123-298-00	1-123-310-00	1-123-323-00	1-123-336-00	1-123-348-00	1-123-363-00	1-123-377-00
1000	1-123-299-00	1-123-311-00	1-123-324-00	1-123-337-00	1-123-349-00	1-123-364-00	1-123-378-00
2200	1-123-300-00	→	1-123-325-00	1-123-338-00	1-123-350-00		
3300	1-123-301-00	1-123-313-00	1-123-326-00	1-123-339-00			
4700	1-123-302-00	1-123-314-00	1-123-327-00				
6800	1-123-303-00	1-123-315-00					
10000	1-123-304-00						

CAP. (μF)	100 VOLT.	160 VOLT.	250 VOLT.	350 VOLT.
	PART No.	PART No.	PART No.	PART No.
0.47	1-123-379-00			
1.0	1-123-380-00	1-123-252-00	1-123-003-00	1-121-168-00
2.2	1-123-381-00	1-123-026-00	1-123-027-00	1-123-028-00
3.3	1-123-382-00	1-121-707-00	1-123-004-00	1-123-006-00
4.7	1-123-383-00	1-121-246-00	1-121-759-00	1-123-007-00
10	1-123-384-00	1-121-999-00	1-123-254-00	1-123-008-00
22	1-123-385-00	1-123-253-00	1-123-005-00	1-123-022-00
33	1-123-386-00	1-121-757-00		
47	1-123-387-00	1-121-919-00		
100	1-123-388-00			
220	1-123-389-00			
330	1-123-390-00			
470	1-123-391-00			

CERAMIC CAPACITORS

CAP. (pF)	RATING 50 VOLT. PART No.	CAP. (pF)	50 VOLT. PART No.	CAP. (pF)	50 VOLT. PART No.	CAP. (μF)	50 VOLT. PART No.
0.5	1-101-837-00	22	1-102-959-00	150	1-101-361-00	0.001	1-102-074-00
0.75	1-101-586-00	24	1-102-960-00	160	1-101-367-00	0.0012	1-102-118-00
1.0	1-102-934-00	27	1-102-961-00	180	1-102-976-00	0.0015	1-102-119-00
1.5	1-101-576-00	30	1-102-962-00	200	1-102-977-00	0.0018	1-102-120-00
2.0	1-102-935-00	33	1-102-963-00	220	1-102-978-00	0.0022	1-102-121-00
3	1-102-936-00	36	1-102-964-00	240	1-102-979-00	0.0027	1-102-122-00
4	1-102-937-00	39	1-102-965-00	270	1-102-980-00	0.0033	1-102-123-00
5	1-102-942-00	43	1-102-966-00	300	1-102-981-00	0.0039	1-102-124-00
6	1-102-943-00	47	1-101-880-00	330	1-102-820-00	0.0047	1-102-125-00
7	1-102-944-00	51	1-101-882-00	360	1-102-821-00	0.0056	1-102-126-00
8	1-102-945-00	56	1-101-884-00	390	1-102-822-00	0.0068	1-102-127-00
9	1-102-946-00	62	1-101-886-00	430	1-102-823-00	0.0082	1-102-128-00
10	1-102-947-00	68	1-101-888-00	470	1-102-824-00	0.01	1-102-129-00
11	1-102-948-00	75	1-101-890-00	510	1-101-059-00	0.022	1-101-005-00
12	1-102-949-00	82	1-102-971-00	560	1-102-115-00	0.047	1-101-006-00
13	1-102-950-00	91	1-102-972-00	680	1-102-116-00		
15	1-102-951-00	100	1-102-973-00	820	1-102-117-00		
16	1-102-952-00	110	1-102-815-00				
18	1-102-953-00	120	1-102-816-00				
20	1-102-958-00	130	1-101-081-00				

0.001μF = 1,000pF

MYLAR CAPACITORS

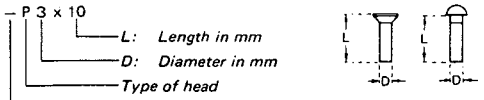
CAP. (μF)	RATING 50 VOLT. PART No.	100 VOLT. PART No.	200 VOLT. PART No.	CAP. (μF)	50 VOLT. PART No.	100 VOLT. PART No.	200 VOLT. PART No.	CAP. (μF)	50 VOLT. PART No.	100 VOLT. PART No.	200 VOLT. PART No.
0.001	1-108-227-00	1-108-365-00	1-108-409-00	0.01	1-108-239-00	1-108-377-00	1-108-421-00	0.1	1-108-251-00	1-108-389-00	1-108-433-00
0.0012	1-108-351-00	1-108-366-00	1-108-410-00	0.012	1-108-357-00	1-108-378-00	1-108-422-00	0.12	1-108-363-00	1-108-390-00	1-108-434-00
0.0015	1-108-228-00	1-108-367-00	1-108-411-00	0.015	1-108-240-00	1-108-379-00	1-108-423-00	0.15	1-108-252-00	1-108-391-00	1-108-435-00
0.0018	1-108-352-00	1-108-368-00	1-108-412-00	0.018	1-108-358-00	1-108-380-00	1-108-424-00	0.18	1-108-364-00	1-108-392-00	1-108-436-00
0.0022	1-108-230-00	1-108-369-00	1-108-413-00	0.022	1-108-242-00	1-108-381-00	1-108-425-00	0.22	1-108-254-00	1-108-393-00	1-108-437-00
0.0027	1-108-353-00	1-108-370-00	1-108-414-00	0.027	1-108-359-00	1-108-382-00	1-108-426-00	0.27	1-108-854-00		
0.0033	1-108-232-00	1-108-371-00	1-108-415-00	0.033	1-108-244-00	1-108-383-00	1-108-427-00	0.33	1-108-855-00		
0.0039	1-108-354-00	1-108-372-00	1-108-416-00	0.039	1-108-360-00	1-108-384-00	1-108-428-00	0.39	1-108-856-00		
0.0047	1-108-234-00	1-108-373-00	1-108-417-00	0.047	1-108-246-00	1-108-385-00	1-108-429-00	0.47	1-108-857-00		
0.0056	1-108-355-00	1-108-374-00	1-108-418-00	0.056	1-108-361-00	1-108-386-00	1-108-430-00				
0.0068	1-108-237-00	1-108-375-00	1-108-419-00	0.068	1-108-249-00	1-108-387-00	1-108-431-00				
0.0082	1-108-356-00	1-108-376-00	1-108-420-00	0.082	1-108-362-00	1-108-388-00	1-108-432-00				

1/4 WATT CARBON RESISTORS

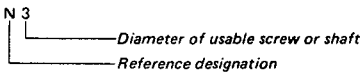
Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.
1.0	1-246-401-00	10	1-246-425-00	100	1-246-449-00	1.0k	1-246-473-00	10k	1-246-497-00	100k	1-246-521-00	1.0M	1-246-545-00
1.1	1-246-402-00	11	1-246-426-00	110	1-246-450-00	1.1k	1-246-474-00	11k	1-246-498-00	110k	1-246-522-00	1.1M	1-210-814-00
1.2	1-246-403-00	12	1-246-427-00	120	1-246-451-00	1.2k	1-246-475-00	12k	1-246-499-00	120k	1-246-523-00	1.2M	1-210-815-00
1.3	1-246-404-00	13	1-246-428-00	130	1-246-452-00	1.3k	1-246-476-00	13k	1-246-500-00	130k	1-246-524-00	1.3M	1-210-816-00
1.5	1-246-405-00	15	1-246-429-00	150	1-246-453-00	1.5k	1-246-477-00	15k	1-246-501-00	150k	1-246-525-00	1.5M	1-210-817-00
1.6	1-246-406-00	16	1-246-430-00	160	1-246-454-00	1.6k	1-246-478-00	16k	1-246-502-00	160k	1-246-526-00	1.6M	1-210-818-00
1.8	1-246-407-00	18	1-246-431-00	180	1-246-455-00	1.8k	1-246-479-00	18k	1-246-503-00	180k	1-246-527-00	1.8M	1-210-819-00
2.0	1-246-408-00	20	1-246-432-00	200	1-246-456-00	2.0k	1-246-480-00	20k	1-246-504-00	200k	1-246-528-00	2.0M	1-210-820-00
2.2	1-246-409-00	22	1-246-433-00	220	1-246-457-00	2.2k	1-246-481-00	22k	1-246-505-00	220k	1-246-529-00	2.2M	1-210-821-00
2.4	1-246-410-00	24	1-246-434-00	240	1-246-458-00	2.4k	1-246-482-00	24k	1-246-506-00	240k	1-246-530-00	2.4M	1-244-754-00
2.7	1-246-411-00	27	1-246-435-00	270	1-246-459-00	2.7k	1-246-483-00	27k	1-246-507-00	270k	1-246-531-00	2.7M	1-244-755-00
3.0	1-246-412-00	30	1-246-436-00	300	1-246-460-00	3.0k	1-246-484-00	30k	1-246-508-00	300k	1-246-532-00	3.0M	1-244-756-00
3.3	1-246-413-00	33	1-246-437-00	330	1-246-461-00	3.3k	1-246-485-00	33k	1-246-509-00	330k	1-246-533-00	3.3M	1-244-757-00
3.6	1-246-414-00	36	1-246-438-00	360	1-246-462-00	3.6k	1-246-486-00	36k	1-246-510-00	360k	1-246-534-00	3.6M	1-244-758-00
3.9	1-246-415-00	39	1-246-439-00	390	1-246-463-00	3.9k	1-246-487-00	39k	1-246-511-00	390k	1-246-535-00	3.9M	1-244-759-00
4.3	1-246-416-00	43	1-246-440-00	430	1-246-464-00	4.3k	1-246-488-00	43k	1-246-512-00	430k	1-246-536-00	4.3M	1-244-760-00
4.7	1-246-417-00	47	1-246-441-00	470	1-246-465-00	4.7k	1-246-489-00	47k	1-246-513-00	470k	1-246-537-00	4.7M	1-244-761-00
5.1	1-246-418-00	51	1-246-442-00	510	1-246-466-00	5.1k	1-246-490-00	51k	1-246-514-00	510k	1-246-538-00	5.1M	1-244-762-00
5.6	1-246-419-00	56	1-246-443-00	560	1-246-467-00	5.6k	1-246-491-00	56k	1-246-515-00	560k	1-246-539-00		
6.2	1-246-420-00	62	1-246-444-00	620	1-246-468-00	6.2k	1-246-492-00	62k	1-246-516-00	620k	1-246-540-00		
6.8	1-246-421-00	68	1-246-445-00	680	1-246-469-00	6.8k	1-246-493-00	68k	1-246-517-00	680k	1-246-541-00		
7.5	1-246-422-00	75	1-246-446-00	750	1-246-470-00	7.5k	1-246-494-00	75k	1-246-518-00	750k	1-246-542-00		
8.2	1-246-423-00	82	1-246-447-00	820	1-246-471-00	8.2k	1-246-495-00	82k	1-246-519-00	820k	1-246-543-00		
9.1	1-246-424-00	91	1-246-448-00	910	1-246-472-00	9.1k	1-246-496-00	91k	1-246-520-00	910k	1-246-544-00		

HARDWARE NOMENCLATURE

Screw:



Nut, Washer, Retaining ring:



Reference Designation	Shape	Description	Remarks
SCREWS			
P		pan-head screw	binding-head (B) screw for replacement
PWH		pan-head screw with washer face	binding-head (B) screw and flat washer for replacement
PS PSP		pan-head screw with spring washer	binding-head (B) screw and spring washer for replacement
PSW PSPW		pan-head screw with spring and flat washers	binding-head (B) screw and spring and flat washers for replacement
R		round-head screw	binding-head (B) screw for replacement
K		flat-countersunk-head screw	
RK		oval-countersunk-head screw	
B		binding-head screw	
T		truss-head screw	binding-head (B) screw for replacement
F		flat-fillister-head screw	
RF		fillister-head screw	
BV		braizer-head screw	

Reference Designation	Shape	Description	Remarks
SELF-TAPPING SCREWS			
TA		self-tapping screw	ex: TA, P 3 x 10
PTP		pan-head self-tapping screw	binding-head self-tapping (TA, B) screw for replacement
PTPWH		pan-head self-tapping screw with washer face	binding-head self tapping (TA, B) screw and flat washer for replacement
PTTWH		pan-head thread-rolling screw with washer face	binding-head (B) screw and flat washer for replacement
SET SCREWS			
SC		set screw	
SC		hexagon-socket set screw	ex: SC 2.6 x 4, hexagon socket
NUT			
N		nut	
WASHERS			
W		flat washer	
SW		spring washer	
LW		internal-tooth lock washer	ex: LW3, internal
LW		external-tooth lock washer	ex: LW3, external
RETAINING RINGS			
E		retaining ring	
G		grip-type retaining ring	

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TV and Consumer Video Group

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